Clarion

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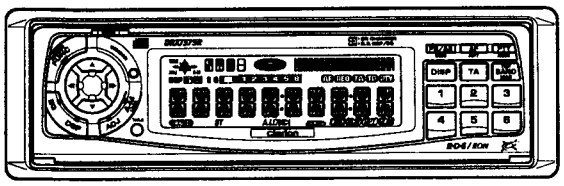
Service Manual



(DRX7375R)

RDS-EON/FM-MPX/MW/LW
Radio CD combination with
CD changer control

Model ***DRX7375R***
(PE-2234E-A/Black panel)

Model ***DRX7375RW***
(PE-2234E-B/Grained panel)

■SPECIFICATIONS

Radio section

Tuning System: PLL synthesizer tuner
Receiving Frequencies:
FM: 87.9 to 107.9MHz(0.05MHz steps)
MW: 531 to 1629kHZ(9kHz steps)
LW: 153 to 279kHz(3kHz steps)

CD Player section

System: Compact disc audio system
Sampling frequency: 44.1kHz
Over sampling: 8times
Converters: Dual 1bit digital/analog converters
Frequency Response: 5Hz to 20kHz (±1dB)
Signal to Noise Ratio: 100dB(1kHz) IHF-A
Dynamic Range: 95dB(1kHz)
Distortion: 0.01%

General

Max power output: 4×35W
Power supply voltage: 14.4V DC(10.8 to 15.6V allowable), Negative ground
Power consumption: Less than 10A
Speaker impedance: 4Ω(4Ω to 8Ω allowable)
Auto antenna rated current: 500mA or less
Weight
Main unit: 1.7kg
Remote control unit: 20g (including battery)

Dimensions(mm)
Main unit: 178(W)×50(H)×152(D)
Remote control unit: 40(W)×6.5(H)×86(D)

※ Specifications comply with EIA Standards.
※ Specifications and design are subject to change without notice for further improvement.

■COMPONENTS

PE-2234E-A / PE-2234E-B

Main unit	————	1
Remote controller	RCB-114-300	1
Battery(CR2025BC)	————	1
Mounting bracket	300-4976-00	1
Mounting bracket	300-9677-00	1
DCP case	335-5331-00	1
Escutcheon(PE-2234E-A)	370-5658-01	1
Escutcheon(PE-2234E-B)	370-5658-02	1
Extension lead	854-6316-80	1
Parts bag	————	
Hook plate	331-0488-00	2
Lead holder	335-0833-01	1
Screw	716-0496-01	1

■ To engineers in charge of repair or inspection of our products.

Before repair or inspection,make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.
   The system uses parts with special safety features against fire and voltage.Use only parts with equivalent characteristics when replacing them.
   The use of unspecified parts shall be regarded as remodeling for which we shall not be liable.The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.
2. Place the parts and wiring back in their original positions after replacement or re-wiring.
   For proper circuit construction,use of insulation tubes,bonding,gaps to PWB,etc,is involved.The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts.Ensure that they are placed back in their original positions after repair or inspection.
   If extended damage is caused due to negligence during repair,the legal responsibility shall be with the repairing company.
3. Check for safety after repair.
   Check that the screws,parts and wires are put back securely in their original position after repair.Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.
   If extended damage is caused due to negligence of repair,the legal responsibility shall be with the repairing company.
4. Caution in removal and making wiring connection to the parts for the automobile.
   Disconnect the battery terminal after turning the ignition key off.If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur.If extensive damage is caused due to negligence of repair,the legal responsibility shall be with the repairing company.
5. Cautions regarding chips.
   Do not reuse removed chips even when no abnormality is observed in their appearance.Always replace them with new ones.(The chip parts include resistors,capacitors,diodes,transistors,etc).The negative pole of tantalum capacitors is highly susceptible to heat,so use special care when replacing them and check the operation afterwards.
6. Cautions in handling flexible PWB
   Before working with a soldering iron,make sure that the iron tip temperature is around 270℃.Take care not to apply the iron tip repeatedly(more than three times)to the same patterns.Also take care not to apply the tip with force.
7. Turn the unit OFF during disassembly and parts replacement.Recheck all work before you apply power to the unit.
8. Cautions in checking that the optical pickup lights up.
   The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up,keep your eyes more than 30cms away from the lens.Prolonged viewing of the laser within 30cms may damage your eyesight.
9. Cautions in handling the optical pickup
   The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body.Make sure to avoid electrostatic charges on your clothes or body,or discharge static electricity before handling the optical pickup.

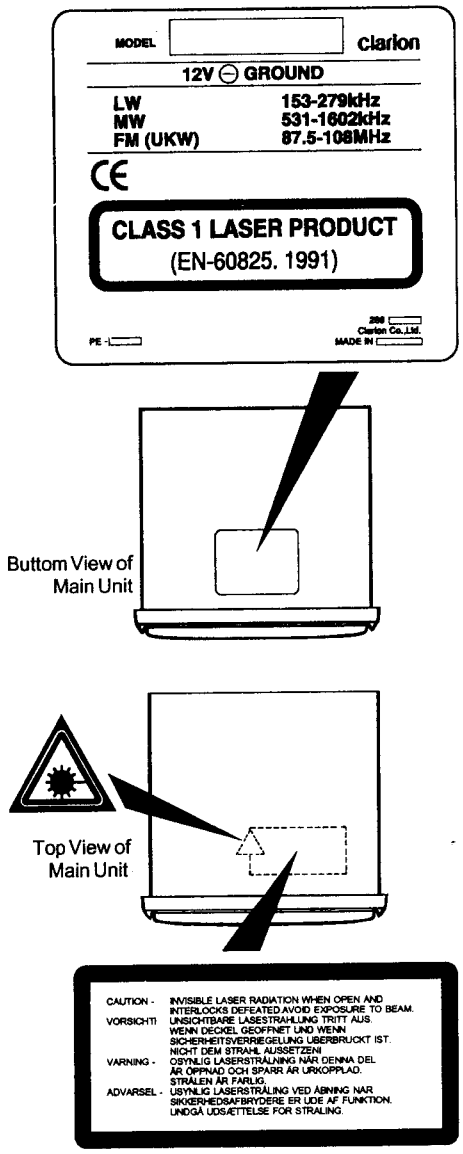
9-1. Laser diode
   The laser diode terminals are shorted for transportation in order to prevent electrostatic damage.After replacement,open the shorted circuit.When removing the pickup from the mechanism,short the terminals by soldering them to prevent this damage.

9-2. Actuator
   The actuator has a powerful magnetic circuit.If a magnetic material is put close to it.its characteristics will change.Ensure that no foreign substances enter through the ventilation slots in the cover.

9-3. Cleaning the lens
   Dust on the optical lens affects performance.To clean the lens,apply a small amount of isopropylalcohol to lens paper and wipe the lens gently.

■CAUTIONS

This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUST". To use this model properly, read this Owner's Manual carefully and keep this manual for your future reference. In case of any trouble with this player, please contact your nearest "AUTHORIZED service station". To prevent direct exposure to the laser beam, do not try to open the enclosure.


MODEL
clarion
12V ⊖ GROUND
LW 153-279kHz
MW 531-1602kHz
FM (UKW) 87.5-108MHz
CE
CLASS 1 LASER PRODUCT
(EN-60825. 1991)
Clarion Co.,Ltd.
MADE IN
Buttom View of Main Unit
Top View of Main Unit
CAUTION - INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED.AVOID EXPOSURE TO BEAM.
VORSICHT! UNSICHTBARE LASESTRAHLUNG TRITT AUS.
WENN DECKEL GEOFFNET UND WENN SICHERHEITSVERRIEGELUNG UBERBRUCKT IST.
NICHT DEM STRAHL AUSSETZEN!
VARNING - OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD.
STRÅLEN ÄR FARLIG.
ADVARSEL - USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION.
UNDGÅ UDSÆTTELSE FOR STRÅLING.

■NOTES

1. For VW and Audi vehicles,change the position of fuse installation as shown on the diagram.(Figure 1)

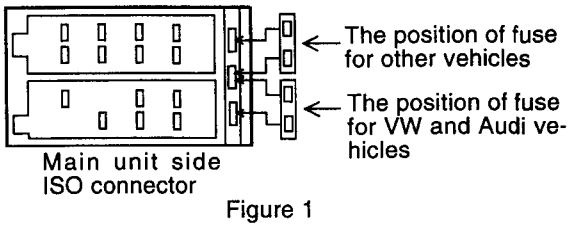


Figure 1

2. The lead include with the unit must be connected to the specified position of the vehicle's ISO connector in order to use the "triggered audio mute for cellular telephones" function.(Figure 2)

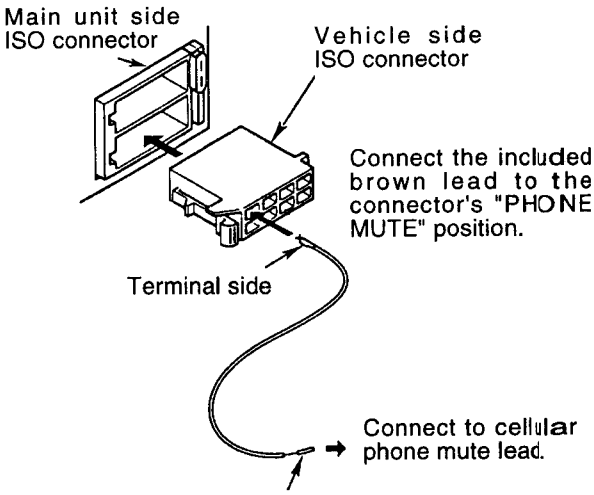
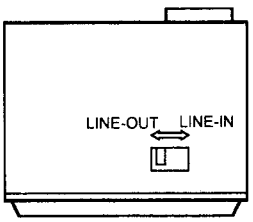

Main unit side ISO connector
Vehicle side ISO connector
Connect the included brown lead to the connector's "PHONE MUTE" position.
Terminal side
Connect to cellular phone mute lead.
Fasten using insulating tape,etc.,to prevent short-circuits at the connection.

Figure 2

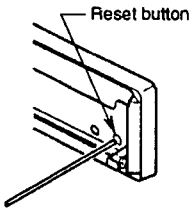
3. The Line IN/OUT switch on the bottom of main unit is intially set to "LINE-OUT".
   When using the internal amplifier and connecting an expanded DSP or equalizer module, set the Line IN/OUT switch to "LINE-IN".(Figure 3)
   For settings,refer to the "Installation/Wire Connection Guide".



Bottom side of main unit

Figure 3

■TROUBLESHOOTING

Problem	Cause	Solution
Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage.
	Incorrect wiring.	Wire properly.
Compact disc cannot be loaded.	Another compact disc is already loaded.	Eject the compact disc before loading the new one.
Sound skips or is noisy.	Compact disc dirty.	Clean the compact disc with soft cloth.
	Compact disc is heaviiy scratched or warped.	Replace with a compact disc with no scratches.
Sound is bad directly after power is turned on.	Water droplets may from on the internal lens when the car is parked in a humid place.	Let dry for about 1 hour with the power on.
Nothing happens when buttons are pressed. Display is not accurate.	Microprocessor has malfunctioned due to noise, etc.	Turn off the power, then press the OPEN button and remove the DCP. Press the reset button for about 2 seconds with a thin rod. 
	DCP or source unit connectors are dirty.	Wipe the dirt off with a soft cloth moistened with cleaning alcohol.
DSP or equalizer does not operate.	Microprocessor has malfunctioned due to noise, etc.	Press Direct button 1 (for more than 2 seconds) while holding in the DSP button, then turn the power back on.

■ERROR DISPLAYS

If an error occurs, one of the following displays is displayed.
Take the measures described below to eliminate the problem.

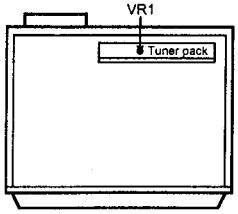
Error Display	Cause	Measure
CD ER2	A CD is caught inside the CD deck and not ejected.	This is a failure of CD deck's mechanism and consult your store of purchase.
CD ER3	A CD cannot be played due to scratches, etc.	Replace with non-scratched, non-warped disc.
CD ER6	A CD is loaded upside-down inside the CD deck and does not play.	Eject the disc then reload it properly.
CDCH ER2	A CD inside the CD changer is not loaded.	This is a failure of CD changer's mechanism.
CDCH ER3	A CD inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
CDCH ER6	A CD inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
EQ ER99	Communication error between source unit and expanded DSP/EQ.	Connect the expanded DSP/EQ connecting cable securely.

If an error display other than the ones described above appears, press the reset button.

■ADJUSTMENTS

Item	Procedure	Measuring instrument
S-meter	1. Input the 98.1MHz/30dB μ(400Hz-MOD 30%)signal. 2. Turn on the power swtch. and,Press the AF button and CH6 button at the same time.(TEST MODE) 3. Adjust the reading of LCD indicator to 『30----00』 (3.0V±0.2V) by VR1.	SG

Adjust point



■EXPLANATION OF IC

■μPD178016GC-514-3B9 052-1313-00 Master Micro Computer

Outward Form

80 pins, plastic QFP

Terminal Description

No.	Symbol	I/O	Function
1	$\overline{\text{CD TEMP}}$	I	When the voltage on the terminal turns below 1/2 Vdd, it stops the mechanism as it judges the CD pickup is overheated
2	PHOTO TR DET	I	Light quantity detection input terminal for auto dimmer
3	KEY A/D	I	Input terminal for detecting key pushed out of OPEN/ EJECT/FUNCTION
4	S-METER	I	Connects FM S meter and changes indication by the wave strength
5	RDS NOISE	I	Noise level detection terminal for FM RDS and SEEK
6	GND	I	Not in use
7 8 9 10 11	SUB SI SUB SO SUB SCK SUB REQ SUB BUSY	I O I/O O I	Serial communication line with slave micro computer
12 13 14	C-BUS SI C-BUS SO C-BUS SCK	I O O	C-BUS data communication line
15	PULSE DIMMER	O	Output terminal for pulse dimmer B/L LED ON signal
16	SD OPEN	O	Not in use
17	$\overline{\text{FM LOCAL}}$	O	Outputs Low when the first round starts in LOCAL SEEK and auto store. After receiving signal it returns to Hi output.
18	SD UP	O	Not in use
19	AM LOCAL	O	Outputs Hi when the first round starts in LOCAL SEEK and auto store. After receiving signal it returns to Hi output.
20	REM OUT SAV	O	Not in use
21	GND PORT	–	GND
22	VDD PORT	–	Power supply terminal
23	SOFT MUTE	O	Output terminal for switching an FM SOFT MUTE constant
24	$\overline{\text{SYS MUTE}}$	O	Output terminal for system mute signal
25	IF REQ	O	FM diversity output terminal. Outputs Hi in RADIO mode, FM, diver ON; outputs Low in diver OFF
26	RDS MUTE	O	RDS output terminal for noise reduction during follow-up motion
27	RDS DISCHG	O	RDS output terminal for discharging the voltage detected by RDS NOISE (5 pin)
28	AM IFC	I	AM IF count signal input terminal
29	FM IFC	I	FM IF count signal input terminal
30	VDD PLL	–	PLL power supply terminal
31 32	VCO H VCO L	I	Not in use
33	GND	–	GND
34 35	EO 0 EO 1	O	Not in use
36	IC	–	GND
37	AM SD	I	Detection terminal for AM SD. Judges SD ON by Hi
38	FM SD	I	Detection terminal for FM SD. Judges SD ON by Hi
39	$\overline{\text{FM ST}}$	I	Detecting terminal for FM stereo indicator
40	RDS DATA	I	Inputs data from RDS decoder
41	$\overline{\text{ILLUMI DET}}$	I	Illumination signal detection terminal
42	+B REM	O	Outputs Hi by power ON, supplying +B power
43 44	EVOL CLK EVOL DATA	O O	Serial data communication line to electronic volume IC
45	RDS +B REM	O	Spare terminal for RDS decoder power ON
46	$\overline{\text{FM ON}}$	O	Output terminal for FM ON signal
47	$\overline{\text{AM ON}}$	O	Output terminal for AM ON signal
48	$\overline{\text{5V REM}}$	O	Outputs signal for 5V power ON around micro computer
49	$\overline{\text{C-BUS SRQ}}$	I	Request signal input terminal reading status from slave microcomputer. When this terminal turns Low it detects the status reading requested
50	EJECT LAMP	O	Eject key illumination output terminal
51	H/L DIMMER	O	Not in use
52	GND	I	GND
53 54 55 56	PLL DI PLL SCK PLL DO PLL CE	I O O O	PLL data communication terminal with PLL IC
57 〜 59	GND	I	Not in use
60	BLINKING LED	O	LED flashing output signal
61	KEY ILL	O	Outputs signal for DCP key illumination lighting
62	LCD DET OUT	I	LCD display ON/OFF control port. Connected to slave micro computer
63 〜 66	GND	I	GND
67	RDS CLK	I	Clock signal input from RDS decoder
68	$\overline{\text{B/U DET}}$	I	When this terminal turns Low, micro computer detects the B/U OFF and turns micro computer to STOP mode, stopping oscillation
69	ACC DET	I	ON/OFF detection terminal for ACC power supply
70	DCP DET	I	DCP removal/installation detection terminal Hi when DCP removed; Low when DCP installed
71	$\overline{\text{KEY INT}}$	I	Key insertion input terminal Low when EJECT key or FUNC(POWER) key pushed When this terminal turns Low, key A/D terminal detects the key pushed
72	GND	–	GND
73	PHONE INT	I	Input terminal for phone interrupt/cellular
74	REG CPU	–	Regulator terminal for CPU power supply. Connected to pass con against noise
75	GND	–	GND
76 77	X2 X1	– I	Connecting terminal for oscillating crystal for main system clock
78	REG OSC	–	Power supply regulator terminal for oscillator. Connected to pass con against noise
79	VDD	–	Power supply terminal
80	$\overline{\text{RESET}}$	I	Micro computer will stop by turning this terminal to "Low"

■μPD78058FGC-045-3B9 052-3331-00 Slave micro computer

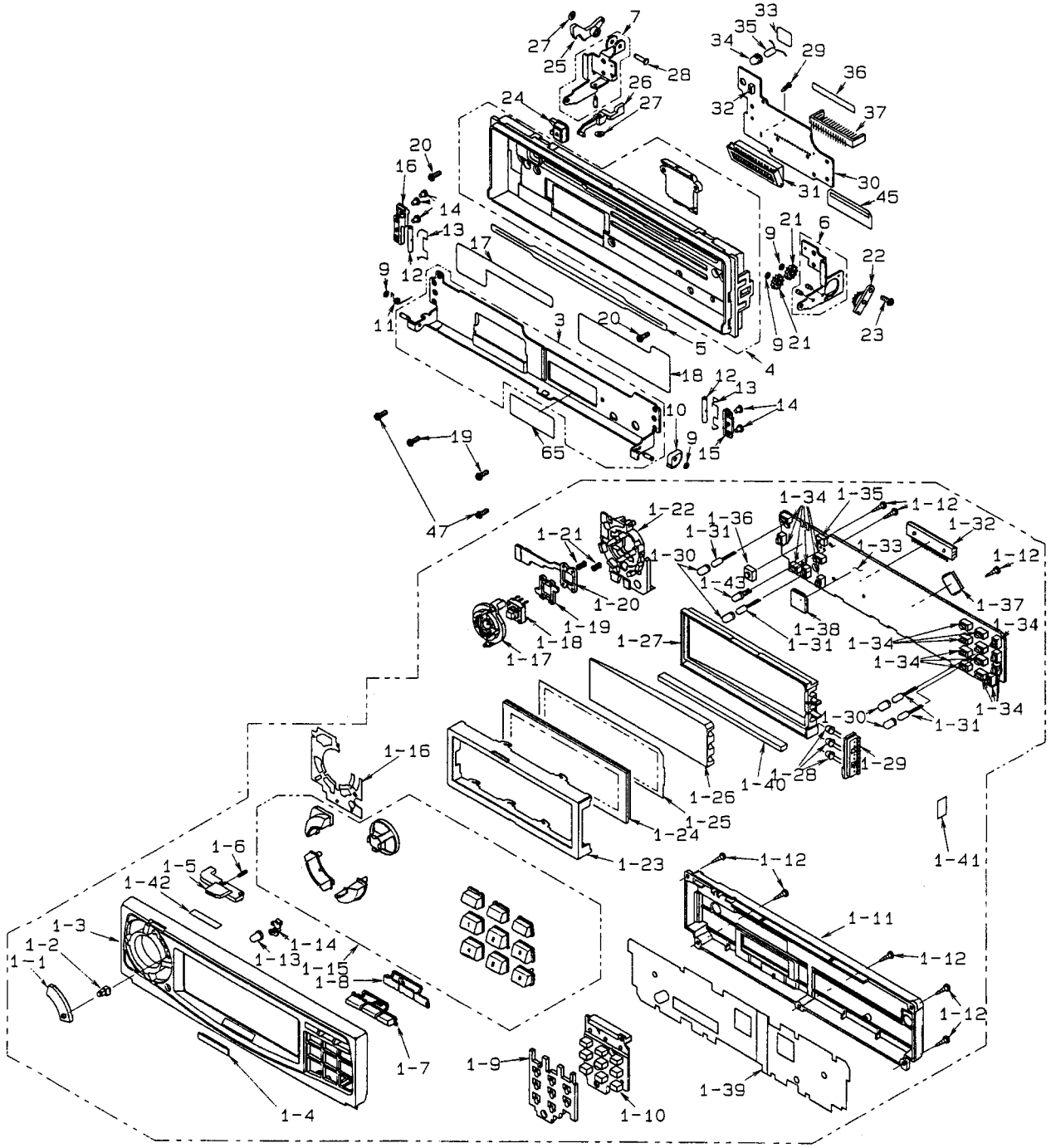
Outward Form

80 pins, plastic QFP

Terminal Description

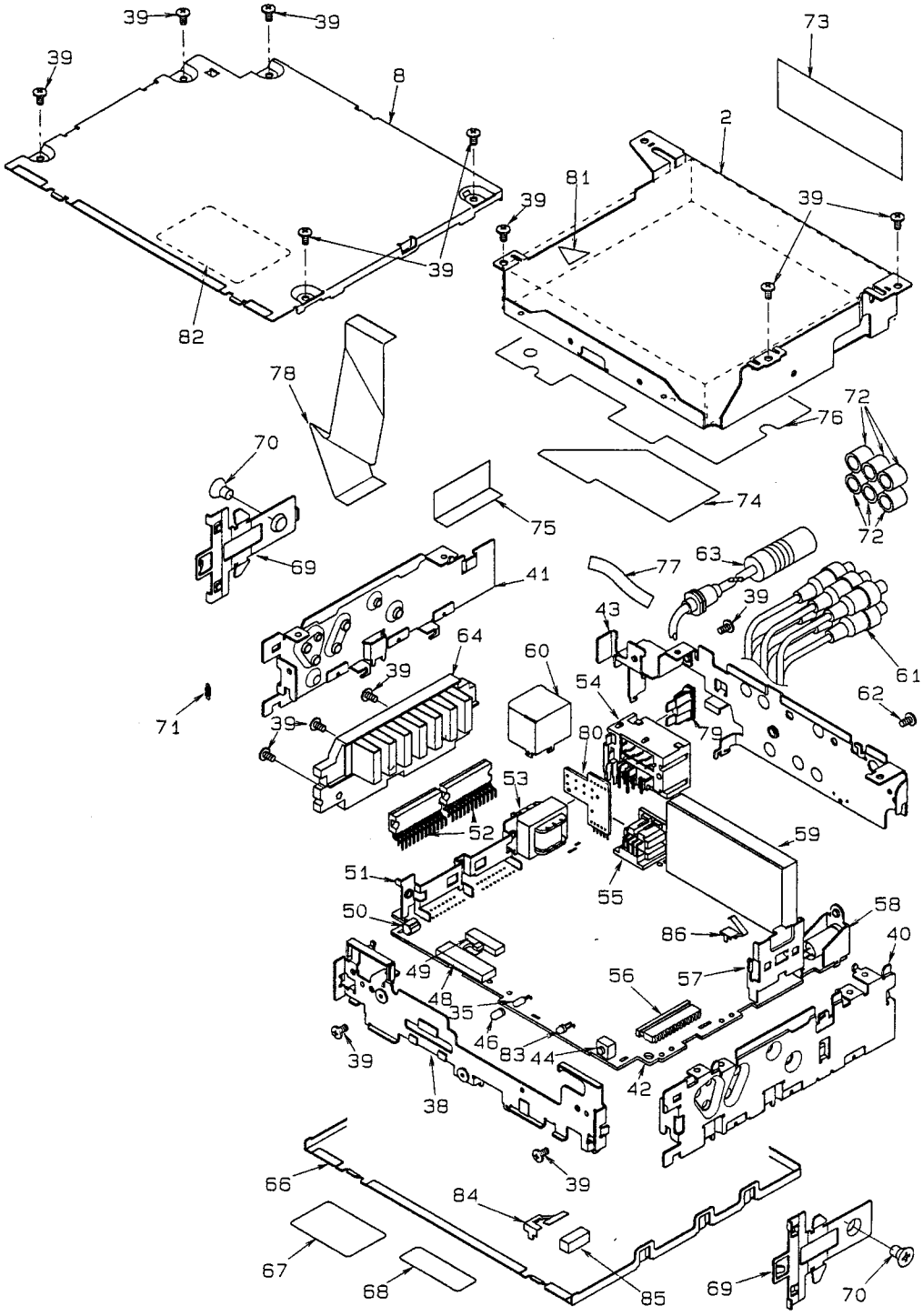
No.	Symbol	I/O	Function
1 ⟆ 3	N.C.	I	Not in use
4	AVSS	–	Ground terminal for A/D converter
5 6	N.C.	–	Not in use
7	AVREF1	–	Terminal for Reference voltage of D/A converter
8 9	B.B.RXD B.B.TXD	I O	Communication line with B.B. DSP
10	N.C.	I	Not in use
11 12 13 14	LCD SI LCD SO LCD SCK LCD CE	I O O O	Serial data communication line with LCD driver IC
15 16 17 18 19	MAIN REQ MAIN SI MAIN SO MAIN SCK MAIN BUSY	I I O I/O O	Serial communication line with master micro computer
20 ⟆ 25	N.C.	O	Not in use
26	DCP 5V	O	DCP Vdd power ON signal output terminal
27 ⟆ 30	N.C.	I	Not in use
31 32	SUB W VOL 1 SUB W VOL 2	O	In combination with output logic of this terminal, set the gain of sub-wafer. VOL 1: Lo Lo Hi Hi VOL 2: Lo Hi Lo Hi ATT(dB): 0 −4 −6 −8
33	VSS	–	GND
34	N.C.	I	Not in use
35	CD 8V REM	O	CD mechanism loading/CD power ON signal output
36	$\overline{\text{N-FAD/SUB-W}}$	O	Non-fader/sub-wafer switch output terminal
37	N.C.	I	Not in use
38	$\overline{\text{CD 5V REM}}$	O	CD-IC/DAC-IC power ON signal output
39	$\overline{\text{SLAVE MUTE}}$	O	Slave mute signal output terminal
40	SCLK	O	Clock output to read coefficient from CD IC
41	DATA	O	Data output terminal for CD/servo IC control
42	$\overline{\text{XLAT}}$	O	Latch output terminal for CD/servo IC control
43	CLK	O	Clock output terminal for CD/servo IC control
44	$\overline{\text{XRST}}$	O	Reset output terminal for CD/servo IC
45	SENS	I	Controls CD by inputting a signal such as FZC, AS, TZC, SSTOP, BUSY, etc. from CD IC.
46	SQCK	O	Clock signal output terminal to read SUB-Q signal from CD IC
47	SQSO	I	Data input terminal to read SUB-Q data from CD IC
48 49 50	A B C	I	Terminal to detect the condition of DISC loading, chucking or others. When DISC is not inserted, Low is input for A/B/C terminal
51 52	MCCW MCW	O	In DISC loading/EJECT mode, the condition of these two terminals are as follows: Loading: MCW Hi, MCCW Lo EJECT: MCW Lo, MCCW Hi Brake: MCW Hi, MCCW Hi Stop: MCW Lo, MCCW Lo
53	$\overline{\text{CHAK-SW}}$	I	Terminal to detect the completion of CD DISC chucking. When the chucking SW is ON after DISC is loaded, Low is input.
54	$\overline{\text{LD ON}}$	O	Laser diode ON/OFF signal output terminal for CD. ON in Low mode.
55 ⟆ 59	N.C.	I	Not in use
60	$\overline{\text{RESET}}$	I	When this terminal is Low, hardware of micro computer stops.
61	REMOCON	I	Remote-control receive signal input terminal
62	$\overline{\text{B/U DET}}$	I	When this terminal is Low, microcomputer detects that B/U is OFF, and oscillation is stopped after microcomputer becomes in STOP mode.
63	5V REM IN	I	When this terminal becomes Hi from Low, microcomputer switches from STOP mode to operation mode, judging that ACC +5V is ON.
64	B.B. REQ	I	Interrupt signal input terminal from B.B. DSP
65	GND	I	GND
66	LCD DET IN	I	Data transmission permit signal input terminal for LCD driver
67	SCOR	I	Microcomputer takes in SUB-Q data immediately after inputting Hi pulse.
68	VDD	–	Power supply terminal
69 70	X2 X1	– I	Ceralock connection terminal for main system clock oscillation
71	IC	–	Connected to GND
72	XT2	–	OPEN
73	XT1	I	Connected to GND
74	AVDD	–	Terminal used for analog power supply voltage of A/D converter
75	AVREF0	–	Terminal used for Reference voltage of A/D converter
76 ⟆ 80	N.C.	I	Not in use

■EXPLODED VIEW • PARTS LIST



NO.	PART NO.	DESCRIPTION	Q'TY
1	940-1819A	ESCUTCHEON-ASSY(E-A)	1
	940-1794A	ESCUTCHEON-ASSY(E-B)	1
1-1	335-5255-00	IR-FILTER	1
1-2	335-5256-00	INDICATOR LENS	1
1-3	370-5631-01	ESCUTCHEON(E-A)	1
	370-5631-03	ESCUTCHEON(E-B)	1
1-4	378-0134-00	BADGE	1

NO.	PART NO.	DESCRIPTION	Q'TY
1-5	382-4385-00	BUTTON	1
1-6	750-3224-00	SPRING	1
1-7	382-4384-01	BUTTON	1
1-8	335-5258-00	BUTTON HOLDER	1
1-9	345-7863-00	SPONGE(R)	1
1-10	335-5259-00	ILLUMI PLATE	1
1-11	335-5261-01	REAR CVR	1



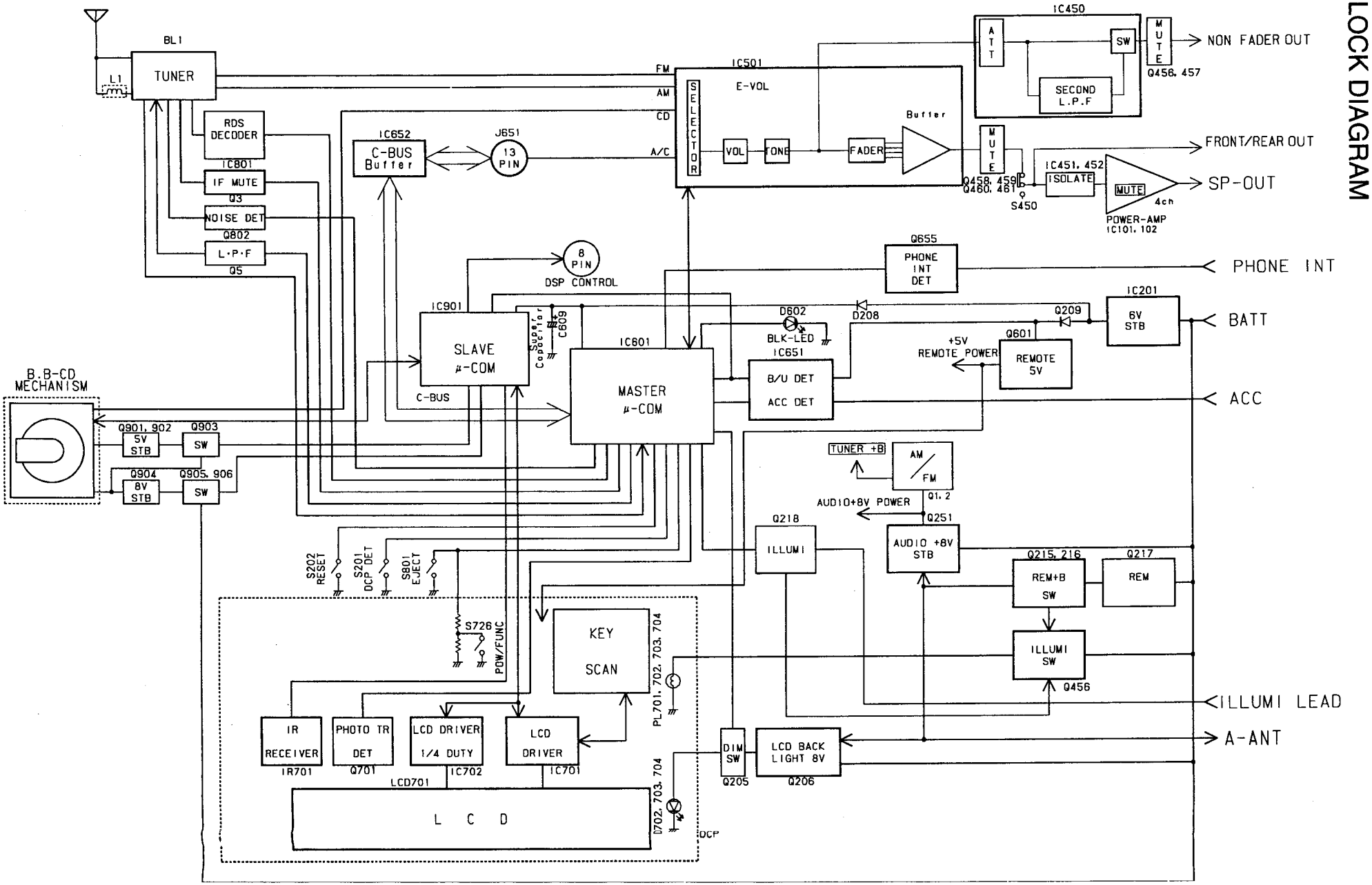
NO.	PART NO.	DESCRIPTION	Q'TY
1-12	716-0872-11	SPECIAL SCREW	8
1-13	382-4386-00	BUTTON	1
1-14	335-5257-00	BUTTON HOLDER	1
1-15	947-0424-60	BUTTON-ASSY	1
1-16	347-5432-00	FILM	1
1-17	335-5275-00	JOG HOLDER	1
1-18	013-9901-00	JOG SWITCH	1

NO.	PART NO.	DESCRIPTION	Q'TY
1-19	335-5276-00	SPACER	1
1-20	039-0857-00	PWB	1
1-21	750-3248-00	SPRING	2
1-22	335-5277-00	ILLUMI PLATE	1
1-23	331-1977-00	LCD COVER	1
1-24	379-1078-41	INDICATOR	1
1-25	347-5408-00	CCS-FILM	1

NO.	PART NO.	DESCRIPTION	Q'TY
1-26	335-5262-00	LCD ILLUMI	1
1-27	335-5260-00	LCD HOLDER	1
1-28	001-7030-00	LED	3
1-29	335-5263-00	LED HOLDER	1
1-30	345-4441-37	LAMP CAP	4
1-31	017-0444-00	PILOTLAMP	4
1-32	076-0535-00	PLUG	1
1-33	039-0860-00	PWB	1
1-34	013-6302-51	SWITCH	18
1-35	060-4008-00	IR-RECEIVER	1
1-36	013-6006-00	SWITCH	1
1-37	051-6013-00	IC (LC75854W)	1
1-38	051-6022-00	IC (LC75824W)	1
1-39	347-5419-00	SHADE	1
1-40	345-7864-00	RUBBER CONNECT	1
1-41	347-5429-00	FILM	1
1-42	347-5444-00	FILM	1
1-43	060-0150-00	PHOTO-TR	1
2	929-0065-82	CD-MECH-MODULE	1
3	946-0060-00	DCP HOLDER ASSY	1
4	940-7783-60	ES-ASSY(I)	1
5	346-0104-00	LEATHER SHEET	1
6	946-0058-00	GEAR HOLD ASSY	1
7	946-0059-00	LEVER HOLD ASSY	1
8	303-0457-00	UPPER-CVR	1
9	746-0761-00	SPECIAL WASHER	4
10	613-0642-00	FAN GEAR	1
11	750-3226-00	SPRING	1
12	335-5314-00	ROLLER	2
13	750-3227-00	SPRING	2
14	738-1722-17	PRECISION SCREW	5
15	335-5268-00	SPRING HOLDER	1
16	335-5272-00	SPRING HOLDER	1
17	290-6598-00	LABEL	1
18	290-6577-00	LABEL	1
19	716-1524-00	SPECIAL SCREW	2
20	716-1556-00	SPECIAL SCREW	2
21	613-0643-00	GEAR	2
22	613-0644-00	GEAR DUMPER	1
23	716-1569-00	SPECIAL SCREW	1
24	382-4387-00	BUTTON(EJECT)	1
25	335-5273-00	HOOK	1
26	335-5265-00	LEVER	1
27	743-1500-10	E-RING	2
28	341-1635-00	SHAFT	1
29	716-0872-00	PAD SCREW	1
30	039-0832-00	PWB	1
31	074-1145-00	OUTLET SOCKET	1
32	013-3853-00	SWITCH	1
33	353-0359-00	SHADE	1
34	345-7148-13	LAMP CAP	1
35	017-0345-09	PILOTLAMP	2

NO.	PART NO.	DESCRIPTION	Q'TY
36	347-5389-00	INSULATOR	1
37	076-0448-14	PLUG	1
38	309-0679-00	FRONT PLATE	1
39	731-3006-80	TAPTIGHT	14
40	305-0247-01	SIDE-CVR(R)	1
41	305-0242-01	SIDE-CVR(L)	1
42	039-0885-00	PWB	1
43	307-0579-00	REAR-CVR	1
44	013-3932-00	SWITCH	1
45	347-5431-00	SPACER	1
46	345-4441-50	LAMP CAP	1
47	714-2605-17	MACHINE SCREW	2
48	074-1012-14	OUTLET SOCKET	1
49	013-5102-01	SWITCH	1
50	013-3988-00	SWITCH	1
51	331-1766-00	IC-HOLDER	1
52	051-2009-00	IC	2
53	009-9006-00	CHOKE	1
54	074-1115-00	OUTLET SOCKET(ISO)	1
55	074-1126-10	OUTLET SOCKET(C-BUS)	1
56	074-0986-26	OUTLET SOCKET	1
57	313-1675-00	HEAT SINK	1
58	092-9000-00	ANT-RECEPT	1
59	880-2080A	AM/FM TUNER	1
60	331-1987-00	SHIELD CASE	1
61	855-5400-00	RCA-PIN CORD	1
62	714-3006-81	MACHINE SCREW	1
63	855-2400-00	MINI-DIN CORD	1
64	313-1643-00	HEAT SINK	1
65	291-0078-00	STICKER	1
66	304-0440-00	LOWER-CVR	1
67	286-8663-00	SETPLATE	1
68	290-6573-00	LABEL	1
69	750-3137-00	SPRING	2
70	714-5008-41	MACHINE SCREW	2
71	750-3225-00	SPRING	1
72	345-3799-00	RUBBER PART	6
73	347-5215-00	INSULATOR	1
74	347-5416-00	INSULATOR	1
75	347-5418-00	RCA SHIELD	1
76	347-5417-00	INSULATOR	1
77	347-5423-00	PROTECTION TAPE	1
78	816-2391-00	FLAT CABLE	1
79	060-0057-56	AUTO FUSE(10A)	1
80	039-0887-00	PWB	1
81	285-1426-00	GUIDE LABEL	1
82	285-1340-00	GUIDE LABEL	1
83	001-0659-00	DIODE	1
84	331-1709-00	EARTH PLATE	1
85	345-7699-00	RUBBER PARTS	1
86	331-1861-00	EARTH PLATE	1

BLOCK DIAGRAM



■ELECTRICAL PARTS LIST

Note) Several different parts of the same reference number are alternative parts. One of those parts is used in the set.

Switch PWB section

REF No.	PART No.	DESCRIPTION
C 701	178-4732-78	0.047 μF
C 702	178-4732-78	0.047 μF
C 703	178-4732-78	0.047 μF
C 704	176-1011-00	100pF CH
C 705	178-4732-78	0.047 μF
C 706	178-4732-78	0.047 μF
C 707	178-4732-78	0.047 μF
C 708	178-4732-78	0.047 μF
C 709	178-8212-78	820pF
C 710	042-0403-01	16V10 μF TAN
C 711	178-1042-78	0.1 μF
C 717	183-1063-32	16V10 μF
D 702	001-7030-00	NSPB310A
D 703	001-7030-00	NSPB310A
D 704	001-7030-00	NSPB310A
D 705	001-0516-00	MA111
D 706	001-0584-23	MA8075
D 707	001-0584-23	MA8075
D 708	001-0584-23	MA8075
D 709	001-0584-23	MA8075
D 710	001-0584-23	MA8075
D 711	001-0584-23	MA8075
D 712	001-0584-23	MA8075
D 713	001-0584-23	MA8075
D 714	001-0584-23	MA8075
D 715	001-0423-22	MA4075
D 716	001-0516-00	MA111
D 717	001-0584-23	MA8075

REF No.	PART No.	DESCRIPTION
D 718	001-0584-23	MA8075
D 719	001-0584-23	MA8075
D 720	001-0584-23	MA8075
D 721	001-0584-23	MA8075
D 722	001-0584-23	MA8075
D 723	001-0584-23	MA8075
D 724	001-0584-23	MA8075
D 725	001-0584-23	MA8075
D 726	001-0584-23	MA8075
D 727	001-0516-00	MA111
IC 701	051-6013-00	LC75854W
IC 702	051-6022-00	LC75824W
IR 701	060-4008-00	
PL 701	017-0444-00	14V 50mA
PL 702	017-0444-00	14V 50mA
PL 703	017-0444-00	14V 50mA
PL 704	017-0444-00	14V 50mA
Q 701	060-0150-00	PN268-R
R 701	117-4341-10	1/10W 430kΩ
R 702	117-1031-10	1/10W 10kΩ
R 703	117-1031-10	1/10W 10kΩ
R 704	117-8231-10	1/10W 82kΩ
R 705	117-1011-10	1/10W 100Ω
R 706	032-0092-80	1/10W 330Ω
R 707	032-0092-80	1/10W 330Ω
R 708	032-0092-80	1/10W 330Ω
R 713	117-1241-10	1/10W 120kΩ
R 714	117-3921-10	1/10W 3.9kΩ

REF No.	PART No.	DESCRIPTION
R 715	117-1031-10	1/10W 10kΩ
R 716	117-2241-10	1/10W 220kΩ
R 724	032-0092-80	1/10W 330Ω
R 725	032-0092-80	1/10W 330Ω
R 726	032-0092-80	1/10W 330Ω
R 727	117-1021-10	1/10W 1kΩ
R 728	117-1021-10	1/10W 1kΩ
R 729	117-1021-10	1/10W 1kΩ
S 702	013-6302-01	
S 703	013-6302-01	
S 704	013-6302-01	
S 705	013-6302-01	
S 706	013-6302-01	
S 707	013-6302-01	
S 708	013-6302-01	
S 709	013-6302-01	
S 710	013-6302-01	
S 711	013-6302-01	
S 712	013-6302-01	
S 713	013-6302-01	
S 714	013-6302-01	
S 715	013-6302-01	
S 716	013-6006-00	
S 721	013-6302-01	
S 722	013-6302-01	
S 723	013-6302-01	
S 726	013-6302-01	

Main PWB section

REF No.	PART No.	DESCRIPTION
ANT 1	092-9000-00	ANTENNA RECEPT
BL 1	880-2080A	AM/FM TUNER
C 1	176-1801-00	18pF CH
C 2	178-1032-78	0.01 μF
C 3	176-1011-00	100pF CH
C 5	183-1053-61	50V1 μF
C 6	178-6822-78	6800pF
C 7	178-1042-78	0.1 μF
C 9	183-4763-31	16V47 μF
C 10	178-1032-78	0.01 μF
C 12	178-1222-78	1200pF
C 13	178-8222-78	8200pF
C 14	183-4763-31	16V47 μF
C 15	178-1042-78	0.1 μF
C 16	183-1053-61	50V1 μF
C 17	178-2232-78	0.022 μF
C 18	178-2232-78	0.022 μF
C 19	178-4732-78	0.047 μF
C 20	178-1522-78	1500pF
C 21	176-1501-00	15pF CH
C 22	176-1801-00	18pF CH
C 23	183-1063-31	16V10 μF
C 25	176-1011-00	100pF CH
C 26	176-1011-00	100pF CH
C 27	176-1011-00	100pF CH
C 28	176-1011-00	100pF CH
C 29	178-4732-78	0.047 μF
C 30	183-1073-12	6.3V100 μF
C 31	178-1022-78	1000pF
C 101	183-2253-62	50V2.2 μF
C 102	183-2253-62	50V2.2 μF
C 103	183-2253-62	50V2.2 μF
C 104	183-2253-61	50V2.2 μF
C 105	178-2232-78	0.022 μF
C 201	183-4763-31	16V47 μF
C 202	172-4731-11	0.047 μF
C 203	183-1063-31	16V10 μF
C 204	042-0447-00	16V2200 μF
C 205	172-1041-11	0.1 μF
C 206	178-4732-78	0.047 μF

REF No.	PART No.	DESCRIPTION
C 207	183-1063-31	16V10 μF
C 208	183-1063-31	16V10 μF
C 209	184-1073-32	16V100 μF
C 210	176-1011-00	100pF CH
C 211	176-1011-00	100pF CH
C 212	176-1011-00	100pF CH
C 213	178-1022-78	1000pF
C 253	183-1073-21	10V100 μF
C 254	183-1063-31	16V10 μF
C 255	178-1032-78	0.01 μF
C 450	183-2263-11	6.3V22 μF
C 451	183-2263-11	6.3V22 μF
C 454	172-3331-11	0.033 μF
C 455	172-3331-11	0.033 μF
C 456	172-3331-11	0.033 μF
C 457	172-3331-11	0.033 μF
C 458	183-2263-11	6.3V22 μF
C 459	183-2263-11	6.3V22 μF
C 460	183-2263-11	6.3V22 μF
C 461	183-2263-11	6.3V22 μF
C 462	183-2263-11	6.3V22 μF
C 463	183-2263-11	6.3V22 μF
C 464	178-4732-78	0.047 μF
C 465	183-1063-31	16V10 μF
C 466	183-1063-31	16V10 μF
C 467	183-1063-31	16V10 μF
C 468	183-1063-31	16V10 μF
C 469	183-1063-31	16V10 μF
C 470	183-1063-31	16V10 μF
C 471	183-1063-31	16V10 μF
C 472	183-1063-31	16V10 μF
C 474	178-4732-78	0.047 μF
C 475	178-1032-78	0.01 μF
C 476	178-1032-78	0.01 μF
C 477	176-1011-00	100pF CH
C 478	176-1011-00	100pF CH
C 501	183-1063-31	16V10 μF
C 502	183-1063-31	16V10 μF
C 504	183-2253-62	50V2.2 μF
C 505	176-2701-00	27pF CH

REF No.	PART No.	DESCRIPTION
C 506	176-1811-00	180pF CH
C 507	183-4753-51	35V4.7 μF
C 508	178-6832-78	0.068 μF
C 509	183-4753-51	35V4.7 μF
C 510	183-2263-11	6.3V22 μF
C 511	173-4721-11	4700pF
C 512	172-5631-11	0.056 μF
C 513	173-4721-11	4700pF
C 514	183-1063-31	16V10 μF
C 515	183-1063-31	16V10 μF
C 516	183-1063-31	16V10 μF
C 518	183-2253-62	50V2.2 μF
C 519	176-2701-00	27pF CH
C 520	176-1811-00	180pF CH
C 521	183-4753-51	35V4.7 μF
C 522	178-6832-78	0.068 μF
C 523	183-4753-51	35V4.7 μF
C 524	183-2263-11	6.3V22 μF
C 525	173-4721-11	4700pF
C 526	172-5631-11	0.056 μF
C 527	173-4721-11	4700pF
C 528	183-1063-31	16V10 μF
C 529	183-4743-61	50V0.47 μF
C 530	183-4753-51	35V4.7 μF
C 531	172-1031-11	0.01 μF
C 532	172-1031-11	0.01 μF
C 533	176-1011-00	100pF CH
C 534	176-1011-00	100pF CH
C 535	176-1011-00	100pF CH
C 601	178-1042-78	0.1 μF
C 607	178-4732-78	0.047 μF
C 609	042-0559-00	5.5V0.1 μF
C 610	178-4732-78	0.047 μF
C 613	178-4732-78	0.047 μF
C 614	178-4732-78	0.047 μF
C 615	042-0458-06	10V 22 μF
C 651	178-4732-78	0.047 μF
C 652	178-2232-78	0.022 μF
C 653	176-1011-00	100pF CH
C 654	178-1022-78	1000pF

REF No.	PART No.	DESCRIPTION
C 801	178-3312-78	330pF
C 802	183-2253-62	50V2.2 μF
C 803	178-5612-78	560pF
C 804	183-4763-11	6.3V47 μF
C 805	178-1042-78	0.1 μF
C 806	176-4701-00	47pF CH
C 807	176-8201-00	82pF CH
C 810	178-3312-78	330pF
C 811	178-5612-78	560pF
C 812	178-5612-78	560pF
C 813	178-2232-78	0.022 μF
C 814	178-2232-78	0.022 μF
C 815	178-1032-78	0.01 μF
C 816	178-3312-78	330pF
C 901	183-4763-31	16V47 μF
C 902	183-1063-31	16V10 μF
C 903	183-1063-31	16V10 μF
C 904	178-1042-78	0.1 μF
C 905	042-0458-06	10V 22 μF
C 906	178-1022-78	1000pF
D 101	001-0377-32	MA4056M
D 208	001-0466-00	S5688B
D 209	001-0466-00	S5688B
D 212	001-0516-00	MA111
D 213	001-0516-00	MA111
D 214	001-0188-01	1S1885A
D 215	001-0589-00	1SS145
D 216	001-0330-00	1SS119
D 218	001-0330-00	1SS119
D 219	001-0377-11	MA4030M
D 252	001-0377-46	MA4091L
D 451	001-0516-00	MA111
D 452	001-0516-00	MA111
D 453	001-0516-00	MA111
D 501	001-0516-00	MA111
D 502	001-0516-00	MA111
D 601	001-0516-00	MA111
D 602	001-0659-00	SLP-181B-51
D 651	001-0516-00	MA111
D 652	001-0516-00	MA111
D 653	001-0516-00	MA111
D 654	001-0330-00	1SS119
D 801	001-0541-00	MA157
D 901	001-0377-32	MA4056M
D 902	001-0377-45	MA4082H
IC 1	051-6201-00	LC72146M
IC 101	051-2009-00	TDA8561Q
IC 102	051-2009-00	TDA8561Q
IC 201	051-3201-00	AN77L06
IC 450	051-1811-00	BA3129F
IC 451	051-0350-55	NJM4558M
IC 452	051-0350-55	NJM4558M
IC 501	051-5008-00	M62419FP
IC 502	051-0350-55	NJM4558M
IC 601	052-1313-00	μPD178018GC-514-3B9
IC 651	051-0869-55	NJM2103M
IC 652	051-0160-06	SN74LS07NS-L
IC 652	051-7400-06	HD74LS07FP
IC 801	051-1819-00	SAA6579T
IC 802	051-0350-55	NJM4558M
IC 901	052-3331-00	μPD78058FGC-045-3B9
J 201	074-1012-14	
J 651	074-1126-10	
J 901	074-0986-26	
L 1	010-4007-00	
L 2	010-2330-36	220 μH
L 202	010-2198-56	2.2 μH
L 203	010-2330-24	22 μH
L 603	010-2198-56	2.2 μH
L 901	010-2330-12	2.2 μH

REF No.	PART No.	DESCRIPTION
L 903	010-2198-56	2.2 μH
PL 201	017-0345-09	
Q 1	100-1298-00	2SA1298
Q 2	100-1162-00	2SA1162
Q 3	103-1306-00	2SD1306
Q 4	125-0002-03	RN2403
Q 4	125-0024-03	MUN2112
Q 5	108-0669-00	2SK669
Q 101	125-2004-06	RN1406
Q 101	125-2020-06	DTC143ZK
Q 201	101-1237-00	2SB1237
Q 202	100-1162-00	2SA1162
Q 205	102-2712-00	2SC2712
Q 206	101-1237-50	2SB1237QR
Q 209	102-2712-00	2SC2712
Q 210	125-2004-03	RN1403
Q 210	125-2031-03	MUN2212
Q 211	101-1143-00	2SB1143
Q 213	101-1237-00	2SB1237
Q 214	102-2712-00	2SC2712
Q 215	125-2004-03	RN1403
Q 215	125-2031-03	MUN2212
Q 216	125-2004-03	RN1403
Q 216	125-2031-03	MUN2212
Q 217	100-1162-00	2SA1162
Q 218	102-2712-00	2SC2712
Q 219	125-2004-03	RN1403
Q 219	125-2031-03	MUN2212
Q 251	103-2118-00	2SD2118
Q 252	108-0241-50	2SK241Y.GR
Q 450	125-0002-02	RN2402
Q 450	125-0024-02	MUN2111
Q 451	125-0002-02	RN2402
Q 451	125-0024-02	MUN2111
Q 452	125-2030-00	RN1410
Q 453	125-2030-00	RN1410
Q 454	125-2030-00	RN1410
Q 455	125-2030-00	RN1410
Q 456	103-1306-00	2SD1306
Q 457	103-1306-00	2SD1306
Q 458	103-1306-00	2SD1306
Q 459	103-1306-00	2SD1306
Q 460	103-1306-00	2SD1306
Q 461	103-1306-00	2SD1306
Q 462	100-1162-00	2SA1162
Q 463	125-2004-03	RN1403
Q 463	125-2031-03	MUN2212
Q 466	125-2004-06	RN1406
Q 466	125-2020-06	DTC143ZK
Q 467	100-1162-00	2SA1162
Q 468	125-2004-03	RN1403
Q 468	125-2031-03	MUN2212
Q 601	100-1162-00	2SA1162
Q 651	125-2004-03	RN1403
Q 651	125-2031-03	MUN2212
Q 652	125-2004-03	RN1403
Q 652	125-2031-03	MUN2212
Q 653	102-2712-00	2SC2712
Q 654	102-2712-00	2SC2712
Q 655	100-1162-00	2SA1162
Q 802	125-2004-03	RN1403
Q 802	125-2031-03	MUN2212
Q 901	103-1858-00	2SD1858
Q 902	103-1858-00	2SD1858
Q 903	125-0002-02	RN2402
Q 903	125-0024-02	MUN2111
Q 904	102-3420-00	2SC3420
Q 905	125-0002-02	RN2402
Q 905	125-0024-02	MUN2111
Q 906	125-2004-02	RN1402
Q 906	125-2031-02	MUN2211
R 1	117-8221-10	1/10W 8.2kΩ

REF No.	PART No.	DESCRIPTION
R 2	111-3311-91	1/4WS 330Ω
R 3	117-1831-10	1/10W 18kΩ
R 4	117-1021-10	1/10W 1kΩ
R 5	117-1231-10	1/10W 12kΩ
R 6	117-1001-10	1/10W 10Ω
R 7	117-1021-10	1/10W 1kΩ
R 8	117-2241-10	1/10W 220kΩ
R 9	117-1031-10	1/10W 10kΩ
R 10	117-1031-10	1/10W 10kΩ
R 11	117-1031-10	1/10W 10kΩ
R 12	117-1021-10	1/10W 1kΩ
R 13	117-1031-10	1/10W 10kΩ
R 14	117-1021-10	1/10W 1kΩ
R 15	117-3331-10	1/10W 33kΩ
R 16	117-1021-10	1/10W 1kΩ
R 17	117-1231-10	1/10W 12kΩ
R 18	117-2711-10	1/10W 270Ω
R 19	117-1021-10	1/10W 1kΩ
R 20	117-2221-10	1/10W 2.2kΩ
R 21	117-1011-10	1/10W 100Ω
R 22	117-2231-10	1/10W 22kΩ
R 27	117-5631-10	1/10W 56kΩ
R 101	117-2231-10	1/10W 22kΩ
R 102	117-1021-10	1/10W 1kΩ
R 103	117-1021-10	1/10W 1kΩ
R 104	117-1021-10	1/10W 1kΩ
R 105	117-1021-10	1/10W 1kΩ
R 201	117-1031-10	1/10W 10kΩ
R 202	111-1221-91	1/4WS 1.2kΩ
R 203	117-1031-10	1/10W 10kΩ
R 204	117-1221-10	1/10W 1.2kΩ
R 209	117-2221-10	1/10W 2.2kΩ
R 211	117-1031-10	1/10W 10kΩ
R 212	117-2221-10	1/10W 2.2kΩ
R 213	111-1221-91	1/4WS 1.2kΩ
R 214	111-4700-91	1/4WS 47Ω
R 215	117-1801-10	1/10W 18Ω
R 218	117-1031-10	1/10W 10kΩ
R 219	111-1221-91	1/4WS 1.2kΩ
R 220	117-4721-10	1/10W 4.7kΩ
R 221	111-1591-91	1/4WS 1.5Ω
R 222	111-1591-91	1/4WS 1.5Ω
R 223	111-1591-91	1/4WS 1.5Ω
R 224	111-1591-91	1/4WS 1.5Ω
R 225	117-1031-10	1/10W 10kΩ
R 226	111-2221-91	1/4WS 2.2kΩ
R 227	117-1031-10	1/10W 10kΩ
R 228	117-1831-10	1/10W 18kΩ
R 229	117-4721-10	1/10W 4.7kΩ
R 230	117-2231-10	1/10W 22kΩ
R 233	117-1011-10	1/10W 100Ω
R 235	117-1021-10	1/10W 1kΩ
R 236	117-2221-10	1/10W 2.2kΩ
R 237	117-1031-10	1/10W 10kΩ
R 238	111-1521-91	1/4WS 1.5kΩ
R 239	117-2231-10	1/10W 22kΩ
R 240	117-2231-10	1/10W 22kΩ
R 241	117-2241-10	1/10W 220kΩ
R 242	117-1011-10	1/10W 100Ω
R 430	117-1031-10	1/10W 10kΩ
R 431	117-3321-10	1/10W 3.3kΩ
R 432	117-1031-10	1/10W 10kΩ
R 433	111-8211-91	1/4WS 820Ω
R 434	117-1021-10	1/10W 1kΩ
R 435	117-1031-10	1/10W 10kΩ
R 436	117-3321-10	1/10W 3.3kΩ
R 437	117-1231-10	1/10W 12kΩ
R 440	117-3321-10	1/10W 3.3kΩ
R 441	117-3321-10	1/10W 3.3kΩ
R 442	117-6821-10	1/10W 6.8kΩ
R 443	117-2231-10	1/10W 22kΩ
R 445	117-3321-10	1/10W 3.3kΩ

REF No.	PART No.	DESCRIPTION
R 446	117-3321-10	1/10W 3.3kΩ
R 447	117-6821-10	1/10W 6.8kΩ
R 448	117-2231-10	1/10W 22kΩ
R 450	117-6831-10	1/10W 68kΩ
R 451	117-6831-10	1/10W 68kΩ
R 452	117-6821-10	1/10W 6.8kΩ
R 453	117-6821-10	1/10W 6.8kΩ
R 454	117-6831-10	1/10W 68kΩ
R 455	117-6831-10	1/10W 68kΩ
R 456	117-6821-10	1/10W 6.8kΩ
R 457	117-6821-10	1/10W 6.8kΩ
R 458	117-4731-10	1/10W 47kΩ
R 459	117-4721-10	1/10W 4.7kΩ
R 460	117-3311-10	1/10W 330Ω
R 461	117-3311-10	1/10W 330Ω
R 462	117-2231-10	1/10W 22kΩ
R 463	117-2231-10	1/10W 22kΩ
R 464	117-3311-10	1/10W 330Ω
R 465	117-3311-10	1/10W 330Ω
R 466	117-2231-10	1/10W 22kΩ
R 467	117-2231-10	1/10W 22kΩ
R 468	117-3311-10	1/10W 330Ω
R 469	117-3311-10	1/10W 330Ω
R 470	117-2231-10	1/10W 22kΩ
R 471	117-2231-10	1/10W 22kΩ
R 473	117-1021-10	1/10W 1kΩ
R 474	117-1021-10	1/10W 1kΩ
R 475	117-1021-10	1/10W 1kΩ
R 476	117-3311-10	1/10W 330Ω
R 477	117-2231-10	1/10W 22kΩ
R 478	032-0092-90	1/4W 10kΩ
R 479	032-0092-90	1/4W 10kΩ
R 480	032-0092-03	1/10W 15kΩ
R 481	032-0092-03	1/10W 15kΩ
R 482	117-3311-10	1/10W 330Ω
R 483	117-2231-10	1/10W 22kΩ
R 484	032-0092-90	1/4W 10kΩ
R 485	032-0092-90	1/4W 10kΩ
R 486	032-0092-03	1/10W 15kΩ
R 487	032-0092-03	1/10W 15kΩ
R 488	117-3311-10	1/10W 330Ω
R 489	117-2231-10	1/10W 22kΩ
R 490	032-0092-90	1/4W 10kΩ
R 491	032-0092-90	1/4W 10kΩ
R 492	032-0092-03	1/10W 15kΩ
R 493	032-0092-03	1/10W 15kΩ
R 494	117-3311-10	1/10W 330Ω
R 495	117-2231-10	1/10W 22kΩ
R 496	032-0092-90	1/4W 10kΩ
R 497	032-0092-90	1/4W 10kΩ
R 498	032-0092-03	1/10W 15kΩ
R 499	032-0092-03	1/10W 15kΩ
R 501	117-3331-10	1/10W 33kΩ
R 502	117-3331-10	1/10W 33kΩ
R 504	117-1031-10	1/10W 10kΩ
R 505	117-2231-10	1/10W 22kΩ

REF No.	PART No.	DESCRIPTION
R 506	117-5131-10	1/10W 51kΩ
R 507	117-1241-10	1/10W 120kΩ
R 508	117-6821-10	1/10W 6.8kΩ
R 509	117-3331-10	1/10W 33kΩ
R 510	117-4721-10	1/10W 4.7kΩ
R 511	117-3331-10	1/10W 33kΩ
R 512	117-3331-10	1/10W 33kΩ
R 514	117-1031-10	1/10W 10kΩ
R 515	117-2231-10	1/10W 22kΩ
R 516	117-5131-10	1/10W 51kΩ
R 517	117-1241-10	1/10W 120kΩ
R 518	117-6821-10	1/10W 6.8kΩ
R 519	117-3331-10	1/10W 33kΩ
R 520	117-4721-10	1/10W 4.7kΩ
R 521	117-1041-10	1/10W 100kΩ
R 522	117-1241-10	1/10W 120kΩ
R 523	117-1021-10	1/10W 1kΩ
R 524	117-1221-10	1/10W 1.2kΩ
R 525	117-4731-10	1/10W 47kΩ
R 529	117-4731-10	1/10W 47kΩ
R 601	117-1041-10	1/10W 100kΩ
R 602	117-1031-10	1/10W 10kΩ
R 603	117-4721-10	1/10W 4.7kΩ
R 604	117-1031-10	1/10W 10kΩ
R 605	117-4731-10	1/10W 47kΩ
R 606	117-4711-10	1/10W 470Ω
R 607	117-1021-10	1/10W 1kΩ
R 608	117-1031-10	1/10W 10kΩ
R 609	117-4731-10	1/10W 47kΩ
R 610	117-2231-10	1/10W 22kΩ
R 612	117-1031-10	1/10W 10kΩ
R 613	117-1041-10	1/10W 100kΩ
R 614	117-2221-10	1/10W 2.2kΩ
R 615	117-1021-10	1/10W 1kΩ
R 616	117-1021-10	1/10W 1kΩ
R 617	117-1021-10	1/10W 1kΩ
R 619	117-1041-10	1/10W 100kΩ
R 620	117-1041-10	1/10W 100kΩ
R 621	117-1041-10	1/10W 100kΩ
R 622	117-1041-10	1/10W 100kΩ
R 623	117-1041-10	1/10W 100kΩ
R 624	117-1041-10	1/10W 100kΩ
R 625	117-1041-10	1/10W 100kΩ
R 626	117-1041-10	1/10W 100kΩ
R 627	117-1041-10	1/10W 100kΩ
R 628	117-1041-10	1/10W 100kΩ
R 629	117-1041-10	1/10W 100kΩ
R 630	117-1041-10	1/10W 100kΩ
R 651	117-2231-10	1/10W 22kΩ
R 652	117-4731-10	1/10W 47kΩ
R 653	117-4731-10	1/10W 47kΩ
R 654	117-1541-10	1/10W 150kΩ
R 655	117-4321-10	1/10W 4.3kΩ
R 656	117-8221-10	1/10W 8.2kΩ
R 657	032-0092-81	1/10W 180kΩ
R 658	032-0092-28	1/10W 62kΩ

REF No.	PART No.	DESCRIPTION
R 659	117-4721-10	1/10W 4.7kΩ
R 660	117-4721-10	1/10W 4.7kΩ
R 661	117-4721-10	1/10W 4.7kΩ
R 662	117-2231-10	1/10W 22kΩ
R 663	117-2231-10	1/10W 22kΩ
R 664	117-4721-10	1/10W 4.7kΩ
R 665	117-1031-10	1/10W 10kΩ
R 666	117-1021-10	1/10W 1kΩ
R 667	117-1021-10	1/10W 1kΩ
R 668	117-4731-10	1/10W 47kΩ
R 669	117-1031-10	1/10W 10kΩ
R 670	117-2231-10	1/10W 22kΩ
R 671	117-5621-10	1/10W 5.6kΩ
R 672	117-1031-10	1/10W 10kΩ
R 673	117-1031-10	1/10W 10kΩ
R 675	117-2231-10	1/10W 22kΩ
R 676	117-4731-10	1/10W 47kΩ
R 801	117-2221-10	1/10W 2.2kΩ
R 802	117-3331-10	1/10W 33kΩ
R 803	117-3321-10	1/10W 3.3kΩ
R 804	117-2231-10	1/10W 22kΩ
R 805	117-1031-10	1/10W 10kΩ
R 806	117-1231-10	1/10W 12kΩ
R 807	117-1041-10	1/10W 100kΩ
R 808	117-1031-10	1/10W 10kΩ
R 809	117-1031-10	1/10W 10kΩ
R 811	117-2211-10	1/10W 220Ω
R 901	117-1041-10	1/10W 100kΩ
R 902	117-1041-10	1/10W 100kΩ
R 903	117-1041-10	1/10W 100kΩ
R 904	117-4731-10	1/10W 47kΩ
R 905	111-2291-91	1/4WS 2.2Ω
R 906	111-2291-91	1/4WS 2.2Ω
R 907	111-2211-91	1/4WS 220Ω
R 908	111-4711-91	1/4WS 470Ω
R 909	117-1011-10	1/10W 100Ω
R 911	117-1041-10	1/10W 100kΩ
R 912	117-1041-10	1/10W 100kΩ
R 913	111-4711-91	1/4WS 470Ω
R 915	117-1041-10	1/10W 100kΩ
R 916	117-1041-10	1/10W 100kΩ
R 917	117-1041-10	1/10W 100kΩ
R 918	117-1041-10	1/10W 100kΩ
R 919	117-1041-10	1/10W 100kΩ
R 920	117-1041-10	1/10W 100kΩ
S 201	013-3988-00	
S 202	013-3932-00	
S 450	013-5102-01	
SUP1	060-0122-10	DSP-201M-SUB
T 201	009-9006-80	
X 1	061-1066-00	7.2MHz
X 601	060-1023-00	CST4.5MGW
X 801	061-3013-00	4.33MHz
X 901	060-1009-00	4.91MHz

DCP sub PWB section

REF No.	PART No.	DESCRIPTION
J 801	074-1145-00	
P 801	074-0448-14	

REF No.	PART No.	DESCRIPTION
PL 801	017-0345-09	

REF No.	PART No.	DESCRIPTION
S 801	013-3853-00	

Jog switch PWB section

REF No.	PART No.	DESCRIPTION
S 724	013-9901-00	

REF No.	PART No.	DESCRIPTION

REF No.	PART No.	DESCRIPTION

CD mechanism PWB section

REF No.	PART No.	DESCRIPTION
C 10	178-1032-78	0.01uF
C 11	182-1063-32	16V10uF
C 12	178-1042-78	0.1uF
C 13	182-1073-12	6.3V100uF
C 14	178-1032-78	0.01uF
C 15	182-2263-12	6.3V22uF
C 16	178-1032-78	0.01uF
C 17	178-1042-78	0.1uF
C 18	178-1042-78	0.1uF
C 19	176-1007-00	10pF CH
C 20	178-1042-78	0.1uF
C 21	182-2263-12	6.3V22uF
C 22	176-2096-00	2pF CJ
C 23	178-1042-78	0.1uF
C 24	178-1022-78	1000pF
C 25	176-1007-00	10pF CH
C 26	176-1007-00	10pF CH
C 27	182-1073-12	6.3V100uF
C 28	178-1042-78	0.1uF
C 29	182-1073-12	6.3V100uF
C 30	178-1042-78	0.1uF
C 31	176-1007-00	10pF CH
C 32	178-2212-78	220pF
C 33	178-1042-78	0.1uF
C 34	178-2212-78	220pF
C 35	178-1032-78	0.01uF

REF No.	PART No.	DESCRIPTION
C 36	178-4732-78	0.047uF
C 37	178-1522-78	1500pF
C 38	178-1032-78	0.01uF
C 39	042-0230-00	35V0.47uF
C 40	178-1032-78	0.01uF
C 41	178-1042-78	0.1uF
C 42	178-2222-78	2200pF
C 100	182-4763-12	6.3V47uF
C 101	182-4763-12	6.3V47uF
C 102	178-1032-78	0.01uF
C 103	182-1073-32	16V100uF
D 1	001-0563-00	GL380
D 2	001-0563-00	GL380
D 3	001-0563-00	GL380
IC 1	051-1014-10	TA7291S
IC 2	051-6015-05	BA6392FP
IC 3	051-6314-05	TC9404FN
IC 4	051-1971-00	CXA16010M
IC 5	051-6313-00	CXD2545Q
L 1	010-2155-03	10uH
L 2	010-2155-03	10uH
L 3	010-2155-03	10uH
Q 1	101-1237-00	2SB1237
R 10	111-2711-91	1/4WS 270ohm
R 11	117-8231-10	1/10W 82kohm
R 12	117-1031-10	1/10W 10kohm

REF No.	PART No.	DESCRIPTION
R 14	117-5631-10	1/10W 56kohm
R 15	117-2731-10	1/10W 27kohm
R 16	117-2211-10	1/10W 220ohm
R 17	117-2211-10	1/10W 220ohm
R 18	117-1031-10	1/10W 10kohm
R 19	117-2231-10	1/10W 22kohm
R 20	117-4721-10	1/10W 4.7kohm
R 21	117-2231-10	1/10W 22kohm
R 22	117-4711-10	1/10W 470ohm
R 23	117-1011-10	1/10W 100ohm
R 24	117-1021-10	1/10W 1kohm
R 25	117-1001-10	1/10W 10ohm
R 26	117-3331-10	1/10W 33kohm
R 27	117-3631-10	1/10W 36kohm
R 28	117-1241-10	1/10W 120kohm
R 29	117-3631-10	1/10W 36kohm
R 30	117-1041-10	1/10W 100kohm
R 31	117-1031-10	1/10W 10kohm
R 32	117-6821-10	1/10W 6.8kohm
R 33	117-3321-10	1/10W 3.3kohm
R 34	117-1051-10	1/10W 1Mohm
R 35	117-1041-10	1/10W 100kohm
R 36	117-1031-10	1/10W 10kohm
X 1	060-1014-00	16.9344MHz

Sensor PWB section

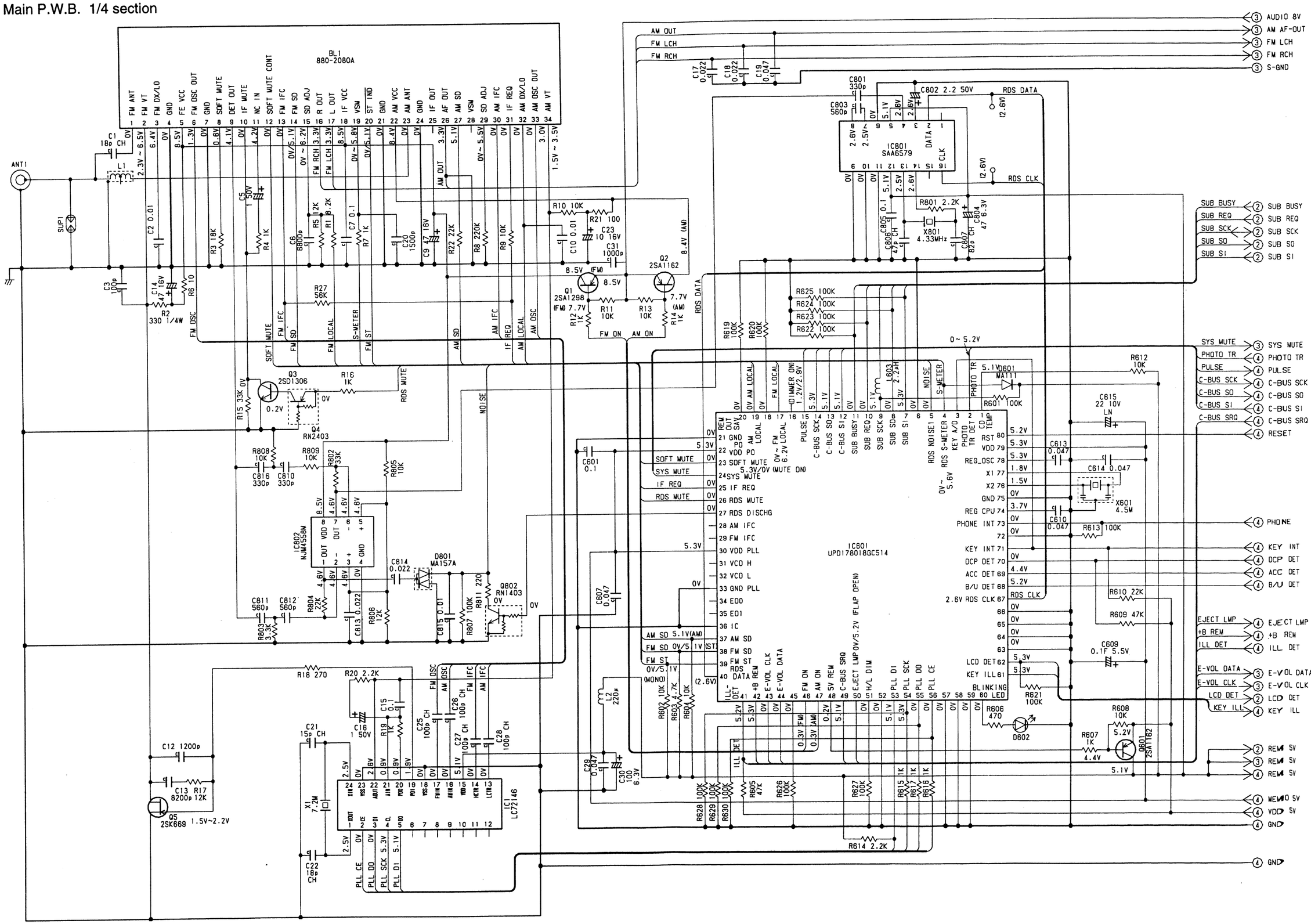
REF No.	PART No.	DESCRIPTION
Q 101	060-0252-01	PT4850F

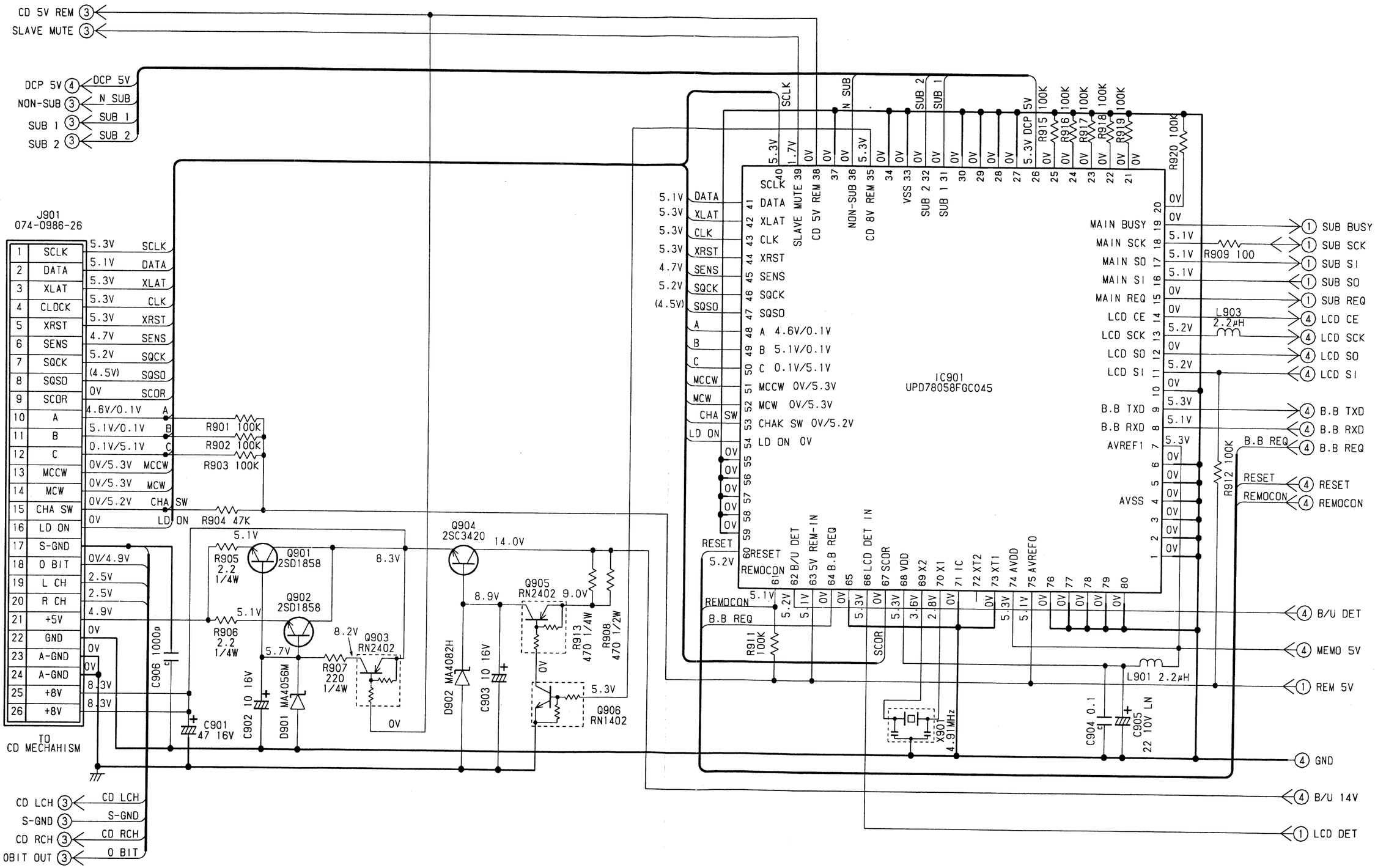
REF No.	PART No.	DESCRIPTION
Q 102	060-0252-01	PT4850F

REF No.	PART No.	DESCRIPTION
Q 103	060-0252-01	PT4850F

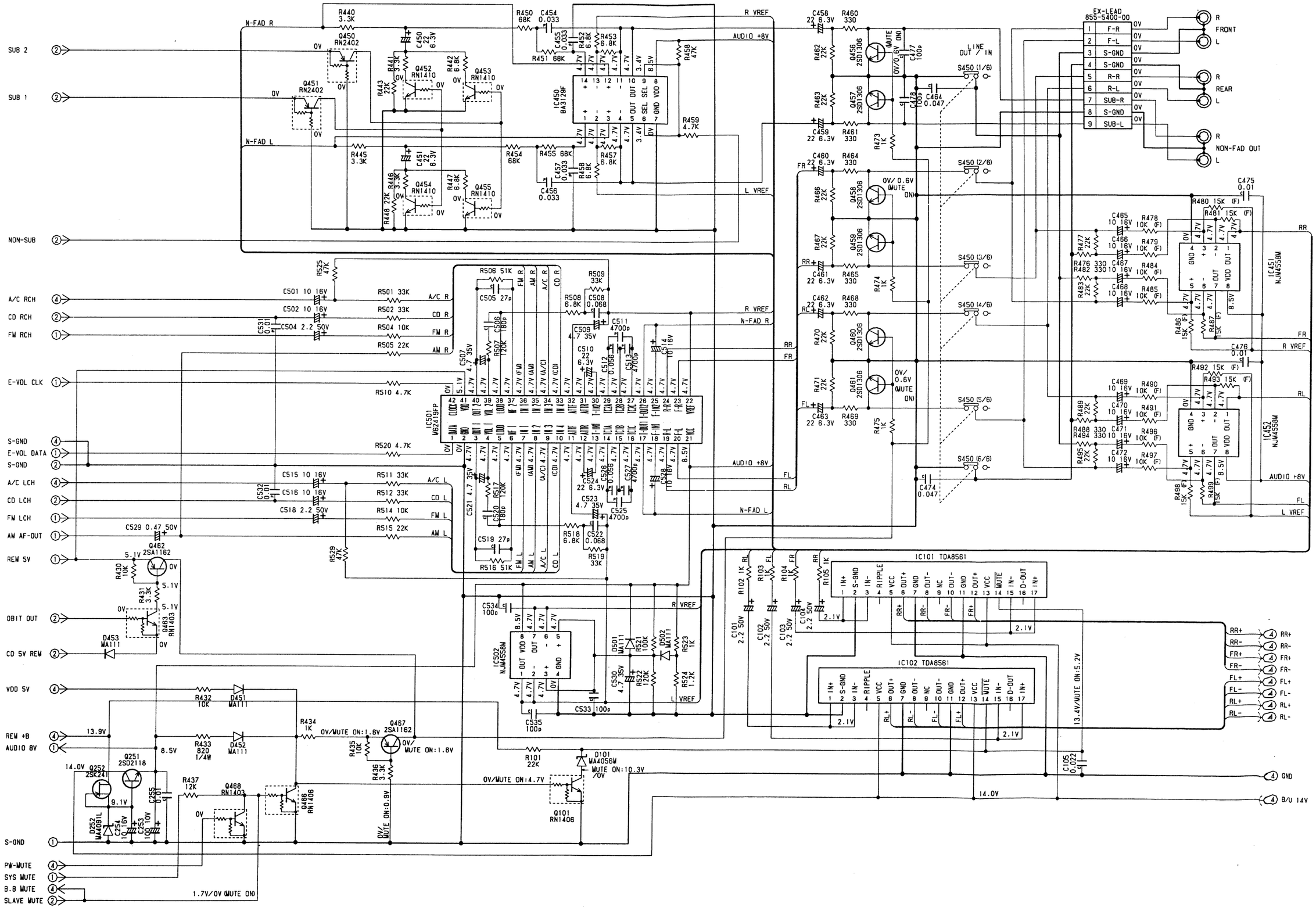
■CIRCUIT DIAGRAM

Main P.W.B. 1/4 section



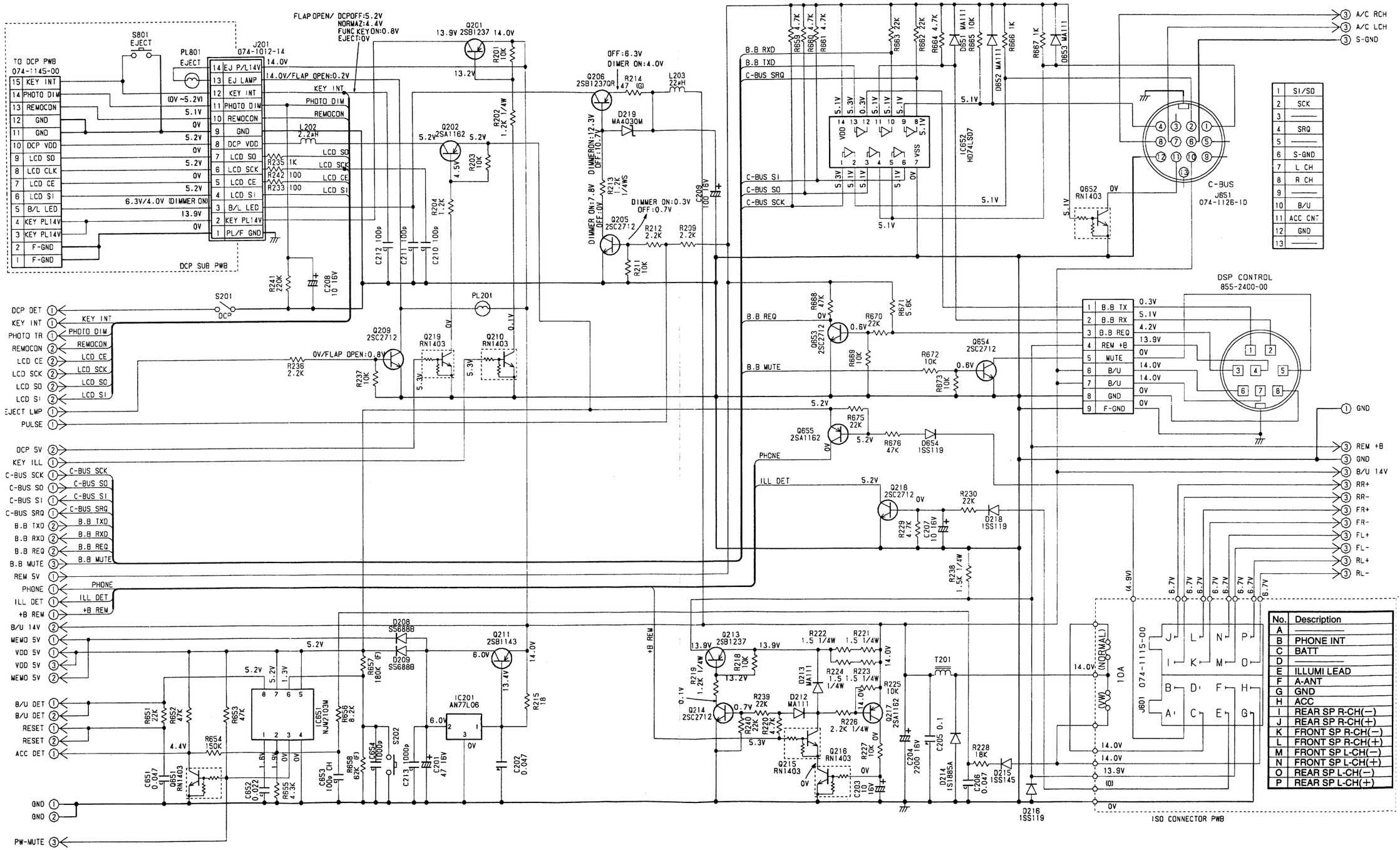

CD 5V REM
SLAVE MUTE
DCP 5V
NON-SUB
SUB 1
SUB 2
J901
074-0986-26
TO
CD MECHAHISM
IC901
UPD78058FGC045
X901
4.91MHz
L901 2.2μH
L903
2.2μH
Q901
2SD1858
Q902
2SD1858
Q903
RN2402
Q904
2SC3420
Q905
RN2402
Q906
RN1402
D901 MA4056M
D902 MA4082H
R901 100K
R902 100K
R903 100K
R904 47K
R905
2.2
1/4W
R906
2.2
1/4W
R907
220
1/4W
R908
470 1/2W
R909 100
R911
100K
R912 100K
R913
470 1/4W
R915 100K
R916 100K
R917 100K
R918 100K
R919 100K
R920 100K
C901
47 16V
C902 10 16V
C903 10 16V
C904 0.1
C905
22 10V LN
C906 1000p
SUB BUSY
SUB SCK
SUB SI
SUB SO
SUB REQ
LCD CE
LCD SCK
LCD SO
LCD SI
B.B TXD
B.B RXD
B.B REQ
RESET
REMOCON
B/U DET
MEMO 5V
REM 5V
GND
B/U 14V
LCD DET
CD LCH
S-GND
CD RCH
OBIT OUT

Main P.W.B. 3/4 section

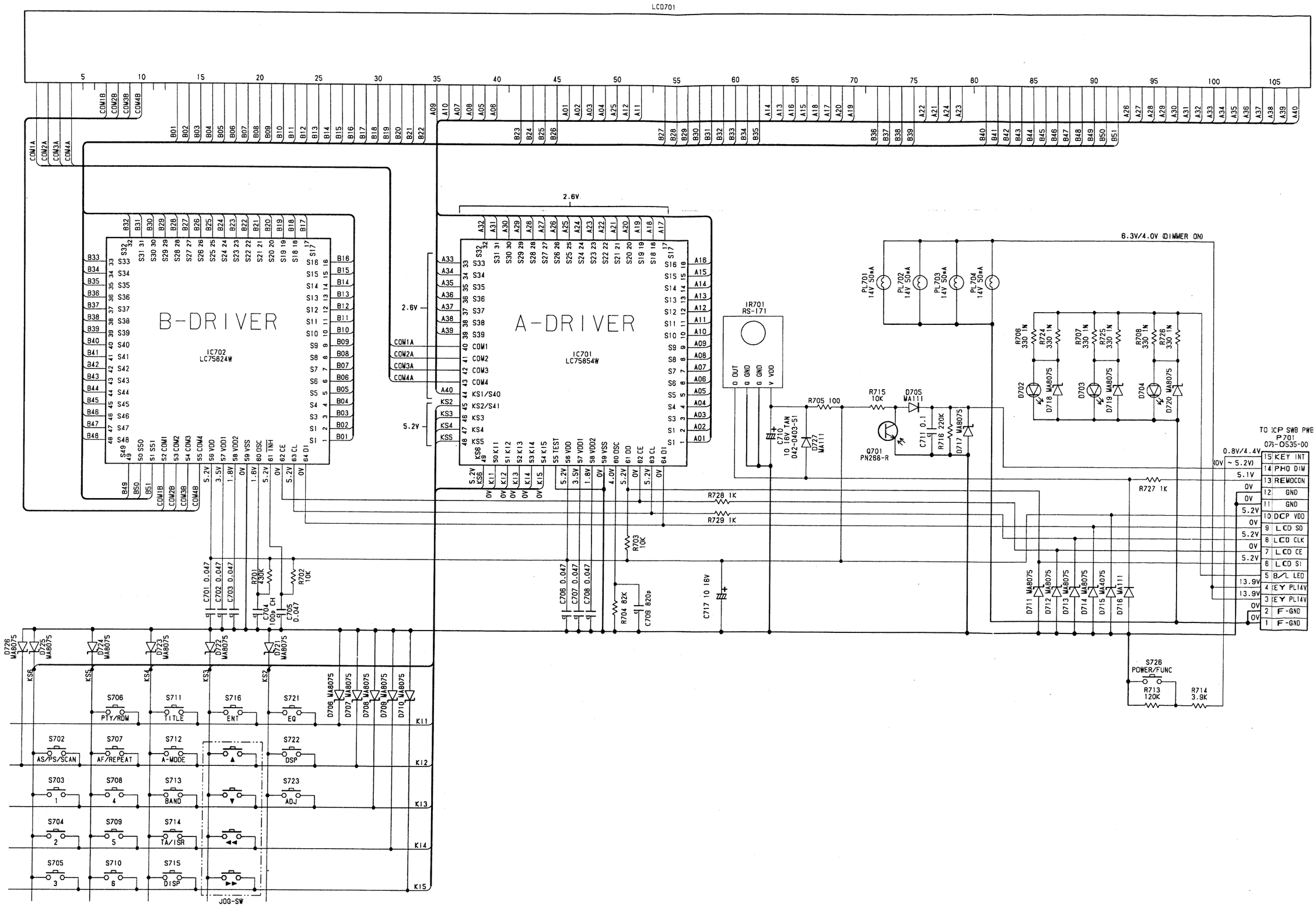


DRX7375R/RW

Main P.W.B. 4/4 / DCP sub P.W.B. / ISO connector P.W.B. section



No.	Description
A	———
B	PHONE INT
C	BATT
D	———
E	ILLUMI LEAD
F	A-ANT
G	GND
H	ACC
I	REAR SP R-CH(−)
J	REAR SP R-CH(+)
K	FRONT SP R-CH(−)
L	FRONT SP R-CH(+)
M	FRONT SP L-CH(−)
N	FRONT SP L-CH(+)
O	REAR SP L-CH(−)
P	REAR SP L-CH(+)

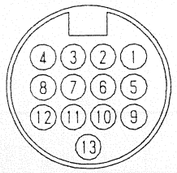

LCD701
B-DRIVER
IC702
LC75824W
A-DRIVER
IC701
LC75854W
2.6V
5.2V
IR701
RS-171
6.3V/4.0V (DIMMER ON)
PL701 14V 50mA
PL702 14V 50mA
PL703 14V 50mA
PL704 14V 50mA
R705 100
R715 10K
D705 MA111
Q701 PN268-R
C711 0.1
R716 220K
D717 MA8075
C710 10 16V TAN 042-0403-51
D727 MA111
R706 330 1K
R724 330 1K
R707 330 1K
R725 330 1K
R708 330 1K
R726 330 1K
D702
D703
D704
D718 MA8075
D719 MA8075
D720 MA8075
R727 1K
R728 1K
R729 1K
R703 10K
R704 82K
C709 820p
C717 10 16V
C706 0.047
C707 0.047
C708 0.047
C701 0.047
C702 0.047
C703 0.047
R701 430K
C704 100p CH
C705 0.047
R702 10K
D726 MA8075
D725 MA8075
D724 MA8075
D723 MA8075
D722 MA8075
D721 MA8075
D706 MA8075
D707 MA8075
D708 MA8075
D709 MA8075
D710 MA8075
D711 MA8075
D712 MA8075
D713 MA8075
D714 MA8075
D715 MA4075
D716 MA111
S706 PTY/RDM
S711 TITLE
S716 ENT
S721 EQ
S702 AS/PS/SCAN
S707 AF/REPEAT
S712 A-MODE
S722 DSP
S703 1
S708 4
S713 BAND
S723 ADJ
S704 2
S709 5
S714 TA/ISR
S705 3
S710 6
S715 DISP
JOG-SW
S726 POWER/FUNC
R713 120K
R714 3.9K
TO DCP SWB PWB P701 073-0535-00
0.8V/4.4V
(0V ~ 5.2V)
15 KEY INT
14 PHO DIM
5.1V
13 REMOCON
0V
12 GND
0V
11 GND
5.2V
10 DCP VDD
0V
9 LCD SO
5.2V
8 LCD CLK
0V
7 LCD CE
5.2V
6 LCD SI
5 B/L LED
13.9V
4 KEY PL14V
13.9V
3 KEY PL14V
0V
2 F-GND
0V
1 F-GND

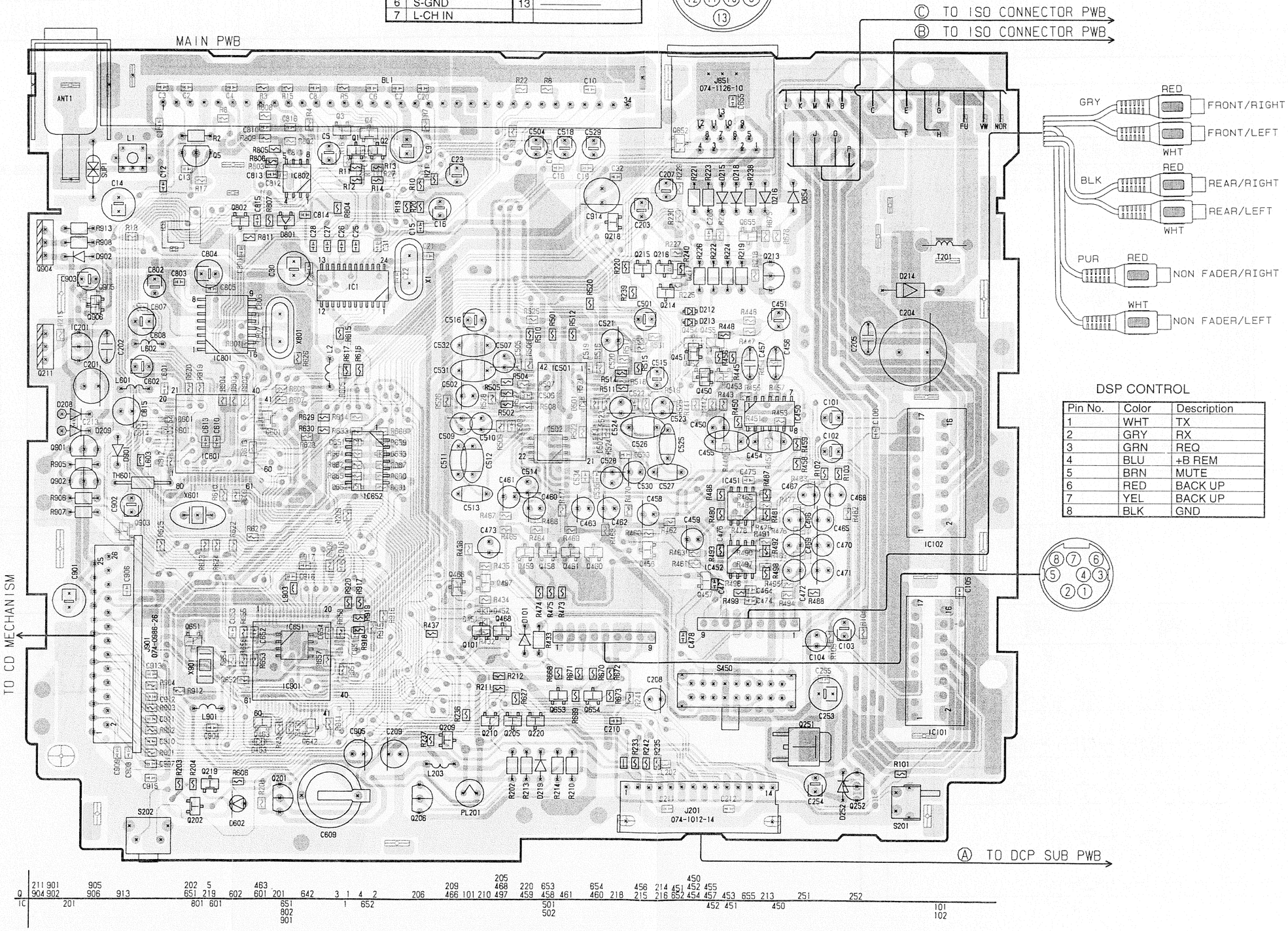
■PRINTED WIRING BOARD

Main P.W.B. section

C-BUS

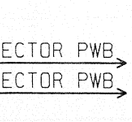
No.	Description	No.	Description
1	SO/SI	8	R-CH IN
2	SCK	9	————
3	————	10	+B
4	SRQ	11	ACC CONTROL
5	————	12	GND
6	S-GND	13	————
7	L-CH IN		

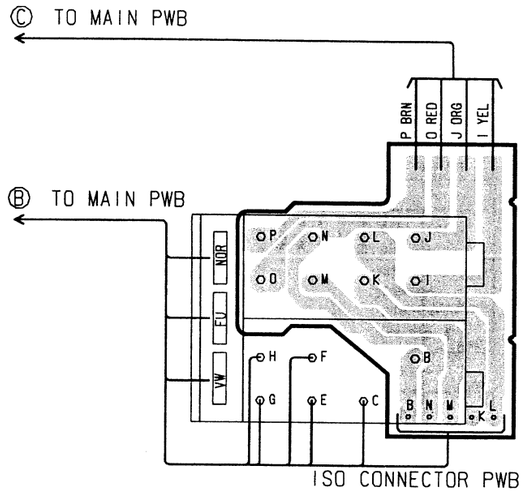




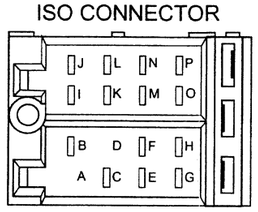
DSP CONTROL

Pin No.	Color	Description
1	WHT	TX
2	GRY	RX
3	GRN	REQ
4	BLU	+B REM
5	BRN	MUTE
6	RED	BACK UP
7	YEL	BACK UP
8	BLK	GND

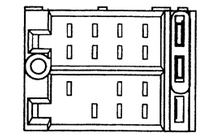




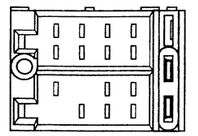
No.	Description	No.	Description
A	————	I	REAR SP R-CH(−)
B	PHONE INT	J	REAR SP R-CH(+)
C	BATT	K	FRONT SP R-CH(−)
D	————	L	FRONT SP R-CH(+)
E	ILLUMI LEAD	M	FRONT SP L-CH(−)
F	A-ANT	N	FRONT SP L-CH(+)
G	GND	O	REAR SP L-CH(−)
H	ACC	P	REAR SP L-CH(+)



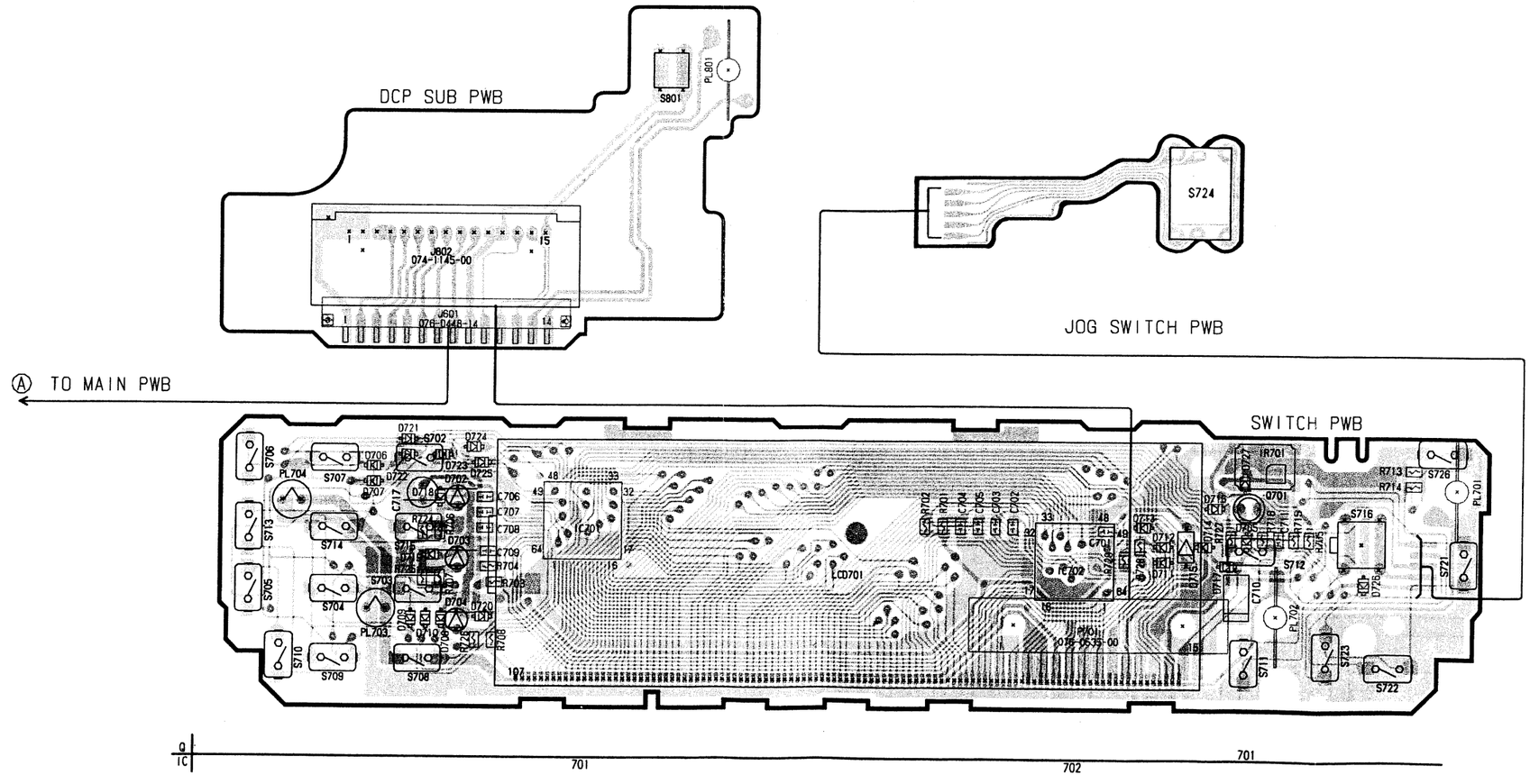
The position of fuse



(For other vehicles)

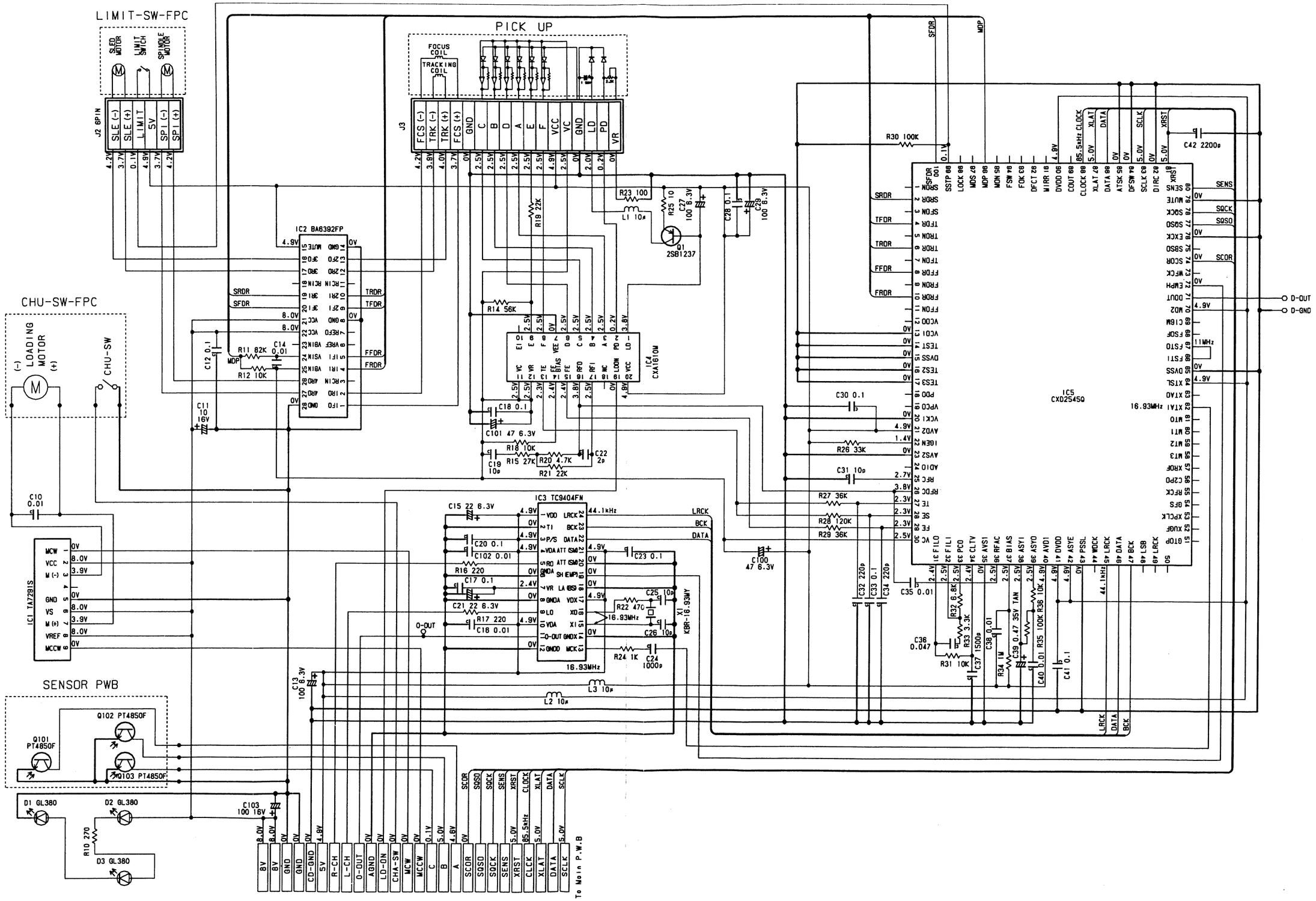


(For VW and Audi)



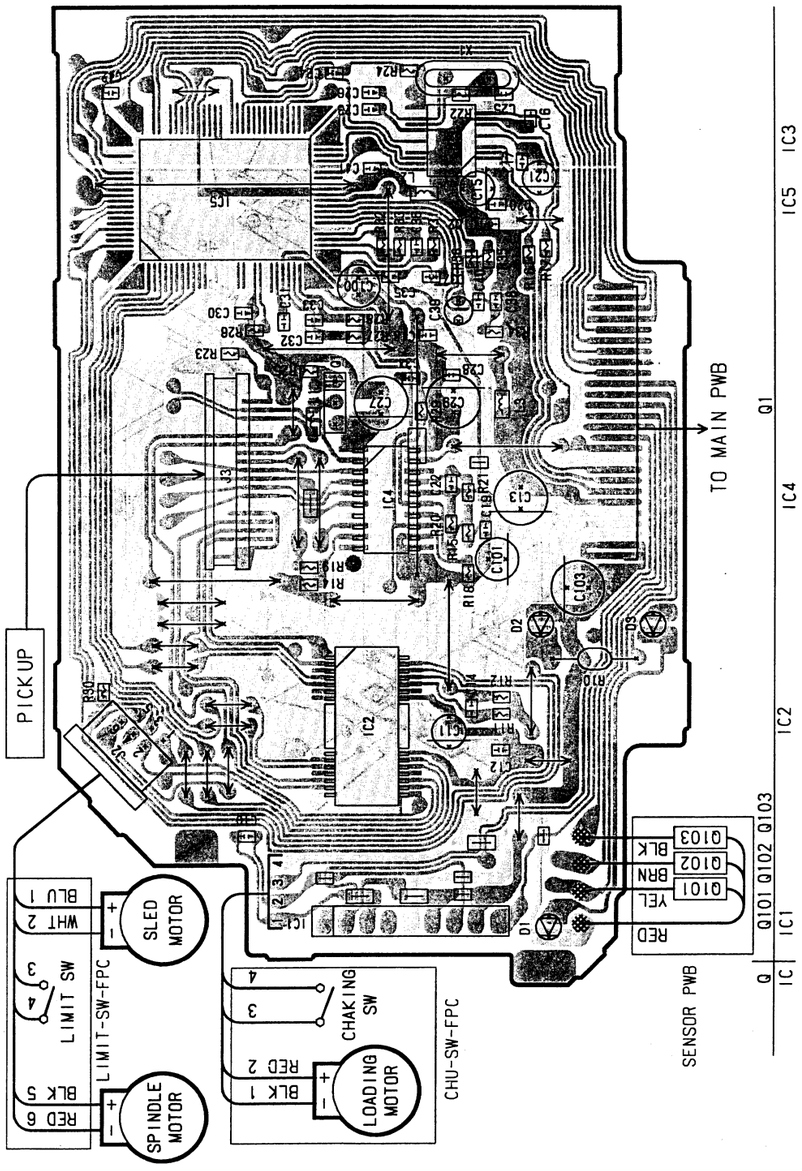
■CIRCUIT DIAGRAM

CD mechanism section



■PRINTED WIRING BOARD

CD mechanism section

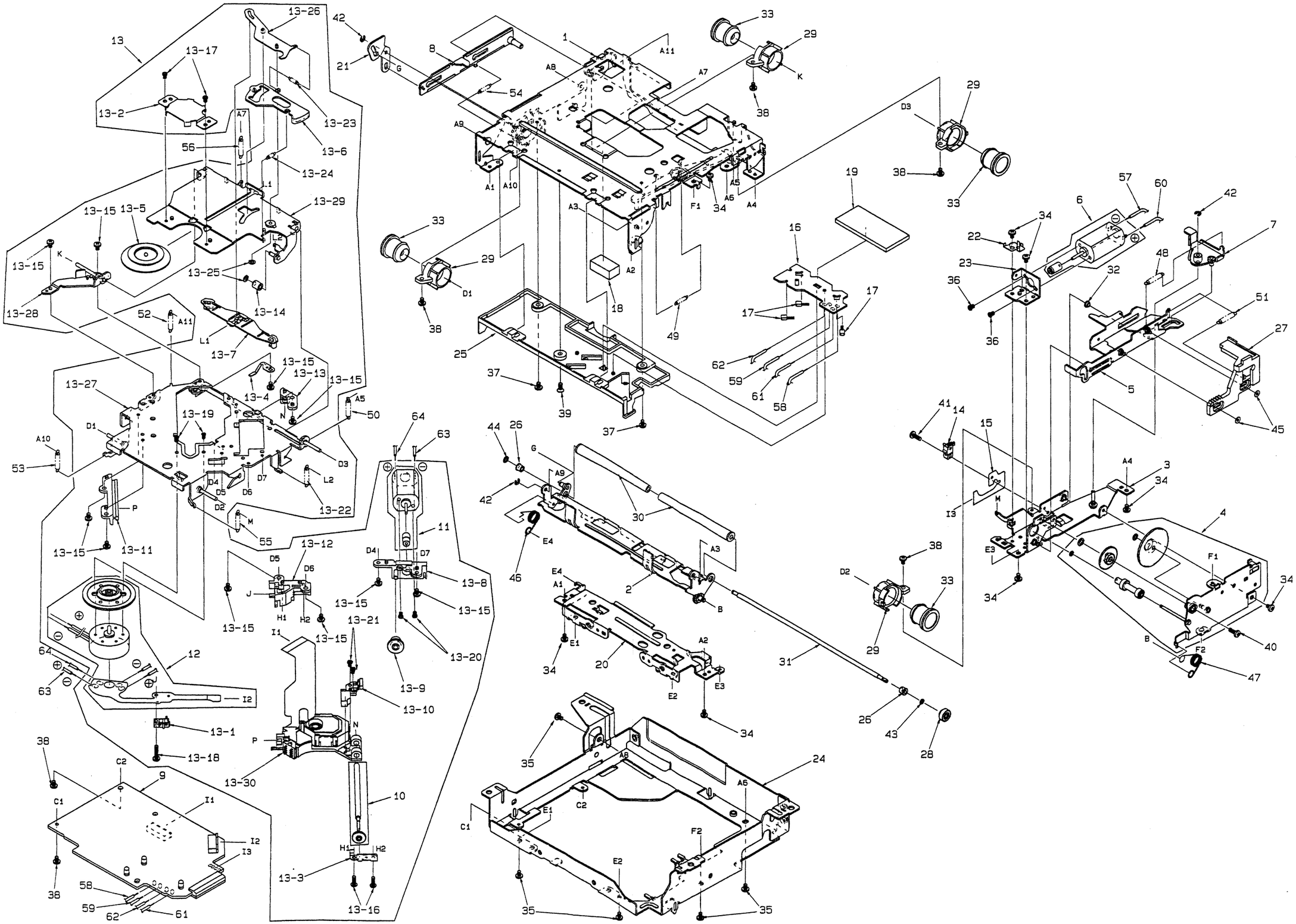


■EXPLODED VIEW・PARTS LIST

CD mechanism section

NO.	PART NO.	DESCRIPTION	Q'TY
1	966-0308-07	CHASSIS ASS'Y	1
2	966-0309-04	L-DISC-G-ASS'Y	1
3	966-0310-06	SFT-P-CH-ASS'Y	1
4	HBS-430-100	GEAR-SUB-ASS'Y	1
5	966-0312-06	SHIFT-P-ASS'Y	1
6	SMA-147-100	MOTOR ASS'Y(LOADING)	1
7	966-0358-01	DRIVE-L-PL-ASS'Y	1
8	966-0359-03	SIDE-L-PL-ASS'Y	1
9	HBS-461-100	PWB ASS'Y	1
10	HBS-432-100	LS-GEAR ASS'Y	1
11	SMA-146-100	MOTOR ASS'Y(SLED)	1
12	SMA-151-100	MOTOR ASS'Y(SPINDLE)	1
13	HBS-433-100	DRIVE UNIT	1
13-1	013-7100-00	LIMIT SWITCH	1
13-2	620-0198-03	CLAMPER PLATE	1
13-3	620-0491-02	SPRING PLATE	1
13-4	620-0690-00	RATTLE PLATE	1
13-5	621-0205-02	CLAMPER PLATE	1
13-6	621-0251-02	LOCK LINK	1
13-7	621-0252-03	DISC STOPPER	1
13-8	621-0253-01	MOTOR HOLDER	1
13-9	621-0255-02	SECOND GEAR	1
13-10	621-0257-05	SCREW HOLDER	1
13-11	621-0357-01	PICKUP GUIDE	2
13-12	621-0358-02	LS-HOLDER-F	1
13-13	621-0359-02	LS-HOLDER-R	1
13-14	622-1073-02	CLAMPER ROLLER	1
13-15	714-2003-81	MACHINE SCREW (M2X3)	10
13-16	716-0675-00	SCREW	2
13-17	716-1468-00	SCREW	2
13-18	716-1555-00	WAVE SCREW	1
13-19	716-1733-00	SCREW	2
13-20	732-2004-11	SEMS SCREW	2
13-21	739-1735-17	PRECISION SCREW	2
13-22	750-3097-03	CLAMPER SPRING	1
13-23	750-3098-00	L-LINK SPRING	1
13-24	750-3099-00	ES-SPRING	1
13-25	746-0761-00	WASHER	2
13-26	966-0314-01	STOP LINK ASS'Y	1
13-27	966-0447-02	DR-PLATE ASS'Y	1
13-28	966-0448-00	SIDE PLATE ASS'Y	1
13-29	966-0449-00	CLAMP LINK ASS'Y	1
13-30	969-0005-00	PICKUP UNIT ASS'Y	1
14	013-3879-01	CHACKING SWITCH	1
15	039-0586-01	FLEXIBLE PWB	1
16	039-0588-01	SENSOR PWB	1
17	060-0252-01	PHOTO TR (PT4850F)	3

NO.	PART NO.	DESCRIPTION	Q'TY
18	345-7513-01	CLAMPER SHEET	1
19	345-7514-00	S-PEB-SHEET	1
20	620-0485-03	FRONT PLATE	1
21	620-0488-01	S-L-LINK PLATE	1
22	620-0489-01	MOTOR PLATE	1
23	620-0492-01	MOTOR BRACKET	1
24	620-0691-05	MECHA BRACKET	1
25	621-0242-02	U-DISC GUIDE	1
26	621-0243-02	ROLLER SLEEVE	2
27	621-0248-06	RACK GEAR	1
28	621-0249-02	ROLLER GEAR	1
29	621-0250-01	DAMPER HOLDER	4
30	621-0258-03	LOADING ROLLER	2
31	622-1072-05	ROLER SHAFT	1
32	622-1219-01	SHIFT ROLLER	1
33	629-0058-00	DAMPER-DL	4
34	714-2003-81	MACHINE SCREW(M2X3)	8
35	714-2603-81	MACHINE SCREW(M2.6X3)	5
36	716-1468-00	SCREW	2
37	716-1507-00	SCREW	2
38	716-1670-00	SCREW	6
39	716-1677-00	SCREW	1
40	716-1704-00	SCREW	1
41	716-1742-00	SCREW	1
42	743-1500-10	E-RING	3
43	746-0712-03	WASHER	1
44	746-0762-00	WASHER	1
45	746-0877-02	WASHER	2
46	750-3090-02	RO-SPRING-L	1
47	750-3091-03	RO-SPRING-R	1
48	750-3092-03	SHIFT SPRING	1
49	750-3094-00	S-ARM SPRING	1
50	750-3096-01	DR-SPRING-R	1
51	750-3098-00	L-LINK SPRING	1
52	750-3164-00	DR-SPRING-LR	1
53	750-3188-00	DR-SP-F-B	1
54	750-3189-00	SIDE-L-SPRING	1
55	750-3201-00	DR-SPRING-F-R	1
56	750-3202-00	CENTER SPRING-B	1
57	800-4904-60	VINYL COAT WIRE(BLK)	1
58	800-4910-60	VINYL COAT WIRE(BLK)	1
59	801-4910-60	VINYL COAT WIRE(BRN)	1
60	802-4904-60	VINYL COAT WIRE(RED)	1
61	802-4910-60	VINYL COAT WIRE(RED)	1
62	804-4910-60	VINYL COAT WIRE(YEL)	1
63	816-2372-00	VINYL COAT WIRE(BLU)	1
64	816-2373-00	VINYL COAT WIRE(WHT)	1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